	DTC (Trouble Codes)	
P0001	Fuel Volume Regulator Control Circuit/Open	
P0002	Fuel Volume Regulator Control Circuit Range/Performance	
P0003	Fuel Volume Regulator Control Circuit Low	
P0004	Fuel Volume Regulator Control Circuit High	
P0005	Fuel Shutoff Valve "A" Control Circuit/Open	
P0006	Fuel Shutoff Valve "A" Control Circuit Low	
P0007	Fuel Shutoff Valve "A" Control Circuit High	
P0008	Engine Position System Performance	
P0009	Engine Position System Performance	
P0010	"A" Camshaft Position Actuator Circuit	
P0011	"A" Camshaft Position - Timing Over-Advanced or System Performance	
P0012	"A" Camshaft Position - Timing Over-Retarded	
P0013	"B" Camshaft Position - Actuator Circuit	
P0014	"B" Camshaft Position - Timing Over-Advanced or System Performance	
P0015	"B" Camshaft Position - Timing Over-Retarded	
P0016	Crankshaft Position - Camshaft Position Correlation	
P0017	Crankshaft Position - Camshaft Position Correlation	
P0018	Crankshaft Position - Camshaft Position Correlation	
P0019	Crankshaft Position - Camshaft Position Correlation	
P0020	"A" Camshaft Position Actuator Circuit	
P0021	"A" Camshaft Position - Timing Over-Advanced or System Performance	
P0022	"A" Camshaft Position - Timing Over-Retarded	
P0023	"B" Camshaft Position - Actuator Circuit	
P0024	"B" Camshaft Position - Timing Over-Advanced or System Performance	
P0025	"B" Camshaft Position - Timing Over-Retarded	
P0026	Intake Valve Control Solenoid Circuit Range/Performance	
P0027	Exhaust Valve Control Solenoid Circuit Range/Performance	
P0028	Intake Valve Control Solenoid Circuit Range/Performance	
P0029	Exhaust Valve Control Solenoid Circuit Range/Performance	
	HO2S Heater Control Circuit	
	HO2S Heater Control Circuit Low	
	HO2S Heater Control Circuit High	
	Turbo Charger Bypass Valve Control Circuit	
P0034	Turbo Charger Bypass Valve Control Circuit Low	
P0035	Turbo Charger Bypass Valve Control Circuit High	
	HO2S Heater Control Circuit	
P0037	HO2S Heater Control Circuit Low	
	HO2S Heater Control Circuit High	
P0039	Turbo/Super Charger Bypass Valve Control Circuit Range/Performance	
P0040	O2 Sensor Signals Swapped Bank 1 Sensor 1/ Bank 2 Sensor 1	
P0041	O2 Sensor Signals Swapped Bank 1 Sensor 2/ Bank 2 Sensor 2	
P0042	HO2S Heater Control Circuit	

	DTC (Trouble Codes)
P0043	HO2S Heater Control Circuit Low
P0044	HO2S Heater Control Circuit High
P0045	Turbo/Super Charger Boost Control Solenoid Circuit/Open
P0046	Turbo/Super Charger Boost Control Solenoid Circuit Range/Performance
P0047	Turbo/Super Charger Boost Control Solenoid Circuit Low
P0048	Turbo/Super Charger Boost Control Solenoid Circuit High
P0049	Turbo/Super Charger Turbine Overspeed
P0050	HO2S Heater Control Circuit
P0051	HO2S Heater Control Circuit Low
P0052	HO2S Heater Control Circuit High
P0053	HO2S Heater Resistance
P0054	HO2S Heater Resistance
P0055	HO2S Heater Resistance
P0056	HO2S Heater Control Circuit
P0057	HO2S Heater Control Circuit Low
P0058	HO2S Heater Control Circuit High
P0059	HO2S Heater Resistance
P0060	HO2S Heater Resistance
P0061	HO2S Heater Resistance
P0062	HO2S Heater Control Circuit
P0063	HO2S Heater Control Circuit Low
P0064	HO2S Heater Control Circuit High
P0065	Air Assisted Injector Control Range/Performance
P0066	Air Assisted Injector Control Circuit or Circuit Low
P0067	Air Assisted Injector Control Circuit High
P0068	MAP/MAF - Throttle Position Correlation
P0069	Manifold Absolute Pressure - Barometric Pressure Correlation
P0070	Ambient Air Temperature Sensor Circuit
P0071	Ambient Air Temperature Sensor Range/Performance
P0072	Ambient Air Temperature Sensor Circuit Low
P0073	Ambient Air Temperature Sensor Circuit High
P0074	Ambient Air Temperature Sensor Circuit Intermittent
P0075	Intake Valve Control Solenoid Circuit
P0076	Intake Valve Control Solenoid Circuit Low
P0077	Intake Valve Control Solenoid Circuit High
P0078	Exhaust Valve Control Solenoid Circuit
P0079	Exhaust Valve Control Solenoid Circuit Low
P0080	Exhaust Valve Control Solenoid Circuit High
P0081	Intake Valve Control Solenoid Circuit
P0082	Intake Valve Control Solenoid Circuit Low
P0083	Intake Valve Control Solenoid Circuit High
P0084	Exhaust Valve Control Solenoid Circuit

# **DTC (Trouble Codes)** P0085 Exhaust Valve Control Solenoid Circuit Low P0086 Exhaust Valve Control Solenoid Circuit High P0087 | Fuel Rail/System Pressure - Too Low P0088 | Fuel Rail/System Pressure - Too High P0089 | Fuel Pressure Regulator 1 Performance P0090 Fuel Pressure Regulator 1 Control Circuit P0091 | Fuel Pressure Regulator 1 Control Circuit Low P0092 | Fuel Pressure Regulator 1 Control Circuit High P0093 Fuel System Leak Detected - Large Leak P0094 Fuel System Leak Detected - Small Leak P0095 Intake Air Temperature Sensor 2 Circuit P0096 Intake Air Temperature Sensor 2 Circuit Range/Performance P0097 Intake Air Temperature Sensor 2 Circuit Low P0098 Intake Air Temperature Sensor 2 Circuit High P0099 Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic P0100 Mass or Volume Air Flow Circuit P0101 Mass or Volume Air Flow Circuit Range/Performance P0102 Mass or Volume Air Flow Circuit Low Input P0103 Mass or Volume Air Flow Circuit High Input P0104 Mass or Volume Air Flow Circuit Intermittent P0105 | Manifold Absolute Pressure/Barometric Pressure Circuit P0106 | Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance P0107 | Manifold Absolute Pressure/Barometric Pressure Circuit Low Input P0108 Manifold Absolute Pressure/Barometric Pressure Circuit High Input P0109 | Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent P0110 Intake Air Temperature Sensor 1 Circuit P0111 Intake Air Temperature Sensor 1 Circuit Range/Performance P0112 Intake Air Temperature Sensor 1 Circuit Low P0113 Intake Air Temperature Sensor 1 Circuit High P0114 Intake Air Temperature Sensor 1 Circuit Intermittent P0115 Engine Coolant Temperature Circuit P0116 Engine Coolant Temperature Circuit Range/Performance P0117 Engine Coolant Temperature Circuit Low P0118 Engine Coolant Temperature Circuit High P0119 Engine Coolant Temperature Circuit Intermittent P0120 Throttle/Pedal Position Sensor/Switch "A" Circuit P0121 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance P0122 Throttle/Pedal Position Sensor/Switch "A" Circuit Low P0123 Throttle/Pedal Position Sensor/Switch "A" Circuit High P0124 Throttle/Pedal Position Sensor/Switch "A" Circuit Intermittent P0125 Insufficient Coolant Temperature for Closed Loop Fuel Control P0126 Insufficient Coolant Temperature for Stable Operation

# **DTC (Trouble Codes)** P0127 Intake Air Temperature Too High P0128 Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature) P0129 Barometric Pressure Too Low P0130 O2 Sensor Circuit P0131 O2 Sensor Circuit Low Voltage P0132 O2 Sensor Circuit High Voltage P0133 O2 Sensor Circuit Slow Response P0134 O2 Sensor Circuit No Activity Detected P0135 O2 Sensor Heater Circuit P0136 O2 Sensor Circuit P0137 O2 Sensor Circuit Low Voltage P0138 O2 Sensor Circuit High Voltage P0139 O2 Sensor Circuit Slow Response P0140 O2 Sensor Circuit No Activity Detected P0141 O2 Sensor Heater Circuit P0142 O2 Sensor Circuit P0143 O2 Sensor Circuit Low Voltage P0144 O2 Sensor Circuit High Voltage P0145 O2 Sensor Circuit Slow Response P0146 O2 Sensor Circuit No Activity Detected P0147 O2 Sensor Heater Circuit P0148 Fuel Delivery Error P0149 Fuel Timing Error P0150 O2 Sensor Circuit P0151 O2 Sensor Circuit Low Voltage P0152 O2 Sensor Circuit High Voltage P0153 O2 Sensor Circuit Slow Response P0154 O2 Sensor Circuit No Activity Detected P0155 O2 Sensor Heater Circuit P0156 O2 Sensor Circuit P0157 O2 Sensor Circuit Low Voltage P0158 O2 Sensor Circuit High Voltage P0159 O2 Sensor Circuit Slow Response P0160 O2 Sensor Circuit No Activity Detected P0161 O2 Sensor Heater Circuit P0162 O2 Sensor Circuit P0163 O2 Sensor Circuit Low Voltage P0164 O2 Sensor Circuit High Voltage P0165 O2 Sensor Circuit Slow Response P0166 O2 Sensor Circuit No Activity Detected P0167 O2 Sensor Heater Circuit P0168 Fuel Temperature Too High

# **DTC (Trouble Codes)** P0169 Incorrect Fuel Composition P0170 | Fuel Trim P0171 System Too Lean P0172 | System Too Rich P0173 Fuel Trim P0174 System Too Lean P0175 | System Too Rich P0176 | Fuel Composition Sensor Circuit P0177 | Fuel Composition Sensor Circuit Range/Performance P0178 | Fuel Composition Sensor Circuit Low P0179 Fuel Composition Sensor Circuit High P0180 | Fuel Temperature Sensor A Circuit P0181 | Fuel Temperature Sensor A Circuit Range/Performance P0182 Fuel Temperature Sensor A Circuit Low P0183 Fuel Temperature Sensor A Circuit High P0184 Fuel Temperature Sensor A Circuit Intermittent P0185 | Fuel Temperature Sensor B Circuit P0186 | Fuel Temperature Sensor B Circuit Range/Performance P0187 Fuel Temperature Sensor B Circuit Low P0188 | Fuel Temperature Sensor B Circuit High P0189 Fuel Temperature Sensor B Circuit Intermittent P0190 | Fuel Rail Pressure Sensor Circuit P0191 | Fuel Rail Pressure Sensor Circuit Range/Performance P0192 Fuel Rail Pressure Sensor Circuit Low P0193 Fuel Rail Pressure Sensor Circuit High P0194 Fuel Rail Pressure Sensor Circuit Intermittent P0195 Engine Oil Temperature Sensor P0196 Engine Oil Temperature Sensor Range/Performance P0197 Engine Oil Temperature Sensor Low P0198 Engine Oil Temperature Sensor High P0199 Engine Oil Temperature Sensor Intermittent P0200 Injector Circuit/Open P0201 Injector Circuit/Open - Cylinder 1 P0202 Injector Circuit/Open - Cylinder 2 P0203 Injector Circuit/Open - Cylinder 3 P0204 Injector Circuit/Open - Cylinder 4 P0205 Injector Circuit/Open - Cylinder 5 P0206 Injector Circuit/Open - Cylinder 6 P0207 Injector Circuit/Open - Cylinder 7 P0208 Injector Circuit/Open - Cylinder 8 P0209 Injector Circuit/Open - Cylinder 9 P0210 Injector Circuit/Open - Cylinder 10

# **DTC (Trouble Codes)** P0211 Injector Circuit/Open - Cylinder 11 P0212 Injector Circuit/Open - Cylinder 12 P0213 | Cold Start Injector 1 P0214 | Cold Start Injector 2 P0215 Engine Shutoff Solenoid P0216 Injector/Injection Timing Control Circuit P0217 Engine Coolant Over Temperature Condition P0218 Transmission Fluid Over Temperature Condition P0219 Engine Overspeed Condition P0220 Throttle/Pedal Position Sensor/Switch "B" Circuit P0221 Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance P0222 Throttle/Pedal Position Sensor/Switch "B" Circuit Low P0223 | Throttle/Pedal Position Sensor/Switch "B" Circuit High P0224 | Throttle/Pedal Position Sensor/Switch "B" Circuit Intermittent P0225 Throttle/Pedal Position Sensor/Switch "C" Circuit P0226 | Throttle/Pedal Position Sensor/Switch "C" Circuit Range/Performance P0227 | Throttle/Pedal Position Sensor/Switch "C" Circuit Low P0228 Throttle/Pedal Position Sensor/Switch "C" Circuit High P0229 Throttle/Pedal Position Sensor/Switch "C" Circuit Intermittent P0230 Fuel Pump Primary Circuit P0231 Fuel Pump Secondary Circuit Low P0232 Fuel Pump Secondary Circuit High P0233 Fuel Pump Secondary Circuit Intermittent P0234 Turbo/Super Charger Overboost Condition P0235 | Turbo/Super Charger Boost Sensor "A" Circuit P0236 Turbo/Super Charger Boost Sensor "A" Circuit Range/Performance P0237 Turbo/Super Charger Boost Sensor "A" Circuit Low P0238 Turbo/Super Charger Boost Sensor "A" Circuit High P0239 Turbo/Super Charger Boost Sensor "B" Circuit P0240 | Turbo/Super Charger Boost Sensor "B" Circuit Range/Performance P0241 Turbo/Super Charger Boost Sensor "B" Circuit Low P0242 Turbo/Super Charger Boost Sensor "B" Circuit High P0243 Turbo/Super Charger Wastegate Solenoid "A" P0244 | Turbo/Super Charger Wastegate Solenoid "A" Range/Performance P0245 Turbo/Super Charger Wastegate Solenoid "A" Low P0246 Turbo/Super Charger Wastegate Solenoid "A" High P0247 Turbo/Super Charger Wastegate Solenoid "B" P0248 | Turbo/Super Charger Wastegate Solenoid "B" Range/Performance P0249 Turbo/Super Charger Wastegate Solenoid "B" Low P0250 Turbo/Super Charger Wastegate Solenoid "B" High P0251 Injection Pump Fuel Metering Control "A" (Cam/Rotor/Injector) P0252 Injection Pump Fuel Metering Control "A" Range/Performance (Cam/Rotor/Injector)

	DTC (Trouble Codes)
P0253	Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector)
P0254	Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector)
P0255	Injection Pump Fuel Metering Control "A" Intermittent (Cam/Rotor/Injector)
P0256	Injection Pump Fuel Metering Control "B" (Cam/Rotor/Injector)
P0257	Injection Pump Fuel Metering Control "B" Range/Performance (Cam/Rotor/Injector)
P0258	Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector)
P0259	Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector)
P0260	Injection Pump Fuel Metering Control "B" Intermittent (Cam/Rotor/Injector)
P0261	Cylinder 1 Injector Circuit Low
P0262	Cylinder 1 Injector Circuit High
P0263	Cylinder 1 Contribution/Balance
P0264	Cylinder 2 Injector Circuit Low
P0265	Cylinder 2 Injector Circuit High
P0266	Cylinder 2 Contribution/Balance
P0267	Cylinder 3 Injector Circuit Low
P0268	Cylinder 3 Injector Circuit High
P0269	Cylinder 3 Contribution/Balance
P0270	Cylinder 4 Injector Circuit Low
P0271	Cylinder 4 Injector Circuit High
P0272	Cylinder 4 Contribution/Balance
P0273	Cylinder 5 Injector Circuit Low
P0274	Cylinder 5 Injector Circuit High
P0275	Cylinder 5 Contribution/Balance
P0276	Cylinder 6 Injector Circuit Low
P0277	Cylinder 6 Injector Circuit High
P0278	Cylinder 6 Contribution/Balance
P0279	Cylinder 7 Injector Circuit Low
P0280	Cylinder 7 Injector Circuit High
P0281	Cylinder 7 Contribution/Balance
P0282	Cylinder 8 Injector Circuit Low
P0283	Cylinder 8 Injector Circuit High
P0284	Cylinder 8 Contribution/Balance
P0285	Cylinder 9 Injector Circuit Low
P0286	Cylinder 9 Injector Circuit High
P0287	Cylinder 9 Contribution/Balance
P0288	Cylinder 10 Injector Circuit Low
P0289	Cylinder 10 Injector Circuit High
P0290	Cylinder 10 Contribution/Balance
P0291	Cylinder 11 Injector Circuit Low
P0292	Cylinder 11 Injector Circuit High
P0293	Cylinder 11 Contribution/Balance
P0294	Cylinder 12 Injector Circuit Low

	DTC (Trouble Codes)	
P0295	Cylinder 12 Injector Circuit High	
P0296	Cylinder 12 Contribution/Balance	
P0297	Vehicle Overspeed Condition	
P0298	Engine Oil Over Temperature	
P0299	Turbo/Super Charger Underboost	
P0300	Random/Multiple Cylinder Misfire Detected	
P0301	Cylinder 1 Misfire Detected	
P0302	Cylinder 2 Misfire Detected	
P0303	Cylinder 3 Misfire Detected	
P0304	Cylinder 4 Misfire Detected	
P0305	Cylinder 5 Misfire Detected	
P0306	Cylinder 6 Misfire Detected	
P0307	Cylinder 7 Misfire Detected	
P0308	Cylinder 8 Misfire Detected	
P0309	Cylinder 9 Misfire Detected	
P0310	Cylinder 10 Misfire Detected	
P0311	Cylinder 11 Misfire Detected	
P0312	Cylinder 12 Misfire Detected	
P0313	Misfire Detected with Low Fuel	
P0314	Single Cylinder Misfire (Cylinder not Specified)	
P0315	Crankshaft Position System Variation Not Learned	
P0316	Engine Misfire Detected on Startup (First 1000 Revolutions)	
P0317	Rough Road Hardware Not Present	
P0318	Rough Road Sensor "A" Signal Circuit	
P0319	Rough Road Sensor "B"	
P0320	Ignition/Distributor Engine Speed Input Circuit	
P0321	Ignition/Distributor Engine Speed Input Circuit Range/Performance	
P0322	Ignition/Distributor Engine Speed Input Circuit No Signal	
P0323	Ignition/Distributor Engine Speed Input Circuit Intermittent	
P0324	Knock Control System Error	
P0325	Knock Sensor 1 Circuit	
P0326	Knock Sensor 1 Circuit Range/Performance	
P0327	Knock Sensor 1 Circuit Low	
P0328	Knock Sensor 1 Circuit High	
P0329	Knock Sensor 1 Circuit Input Intermittent	
P0330	Knock Sensor 2 Circuit	
P0331	Knock Sensor 2 Circuit Range/Performance	
P0332	Knock Sensor 2 Circuit Low	
P0333	Knock Sensor 2 Circuit High	
P0334	Knock Sensor 2 Circuit Input Intermittent	
P0335	Crankshaft Position Sensor "A" Circuit	
P0336	Crankshaft Position Sensor "A" Circuit Range/Performance	

# **DTC (Trouble Codes)** P0337 Crankshaft Position Sensor "A" Circuit Low P0338 Crankshaft Position Sensor "A" Circuit High P0339 Crankshaft Position Sensor "A" Circuit Intermittent P0340 | Camshaft Position Sensor "A" Circuit P0341 | Camshaft Position Sensor "A" Circuit Range/Performance P0342 | Camshaft Position Sensor "A" Circuit Low P0343 | Camshaft Position Sensor "A" Circuit High P0344 Camshaft Position Sensor "A" Circuit Intermittent P0345 Camshaft Position Sensor "A" Circuit P0346 Camshaft Position Sensor "A" Circuit Range/Performance P0347 Camshaft Position Sensor "A" Circuit Low P0348 | Camshaft Position Sensor "A" Circuit High P0349 Camshaft Position Sensor "A" Circuit Intermittent P0350 Ignition Coil Primary/Secondary Circuit P0351 Ignition Coil "A" Primary/Secondary Circuit P0352 Ignition Coil "B" Primary/Secondary Circuit P0353 Ignition Coil "C" Primary/Secondary Circuit P0354 Ignition Coil "D" Primary/Secondary Circuit P0355 Ignition Coil "E" Primary/Secondary Circuit P0356 Ignition Coil "F" Primary/Secondary Circuit P0357 Ignition Coil "G" Primary/Secondary Circuit P0358 Ignition Coil "H" Primary/Secondary Circuit P0359 Ignition Coil "I" Primary/Secondary Circuit P0360 Ignition Coil "J" Primary/Secondary Circuit P0361 Ignition Coil "K" Primary/Secondary Circuit P0362 Ignition Coil "L" Primary/Secondary Circuit P0363 Misfire Detected - Fueling Disabled P0364 Reserved P0365 Camshaft Position Sensor "B" Circuit P0366 Camshaft Position Sensor "B" Circuit Range/Performance P0367 Camshaft Position Sensor "B" Circuit Low P0368 Camshaft Position Sensor "B" Circuit High P0369 Camshaft Position Sensor "B" Circuit Intermittent P0370 Timing Reference High Resolution Signal "A" P0371 Timing Reference High Resolution Signal "A" Too Many Pulses P0372 Timing Reference High Resolution Signal "A" Too Few Pulses P0373 Timing Reference High Resolution Signal "A" Intermittent/Erratic Pulses P0374 Timing Reference High Resolution Signal "A" No Pulse P0375 Timing Reference High Resolution Signal "B" P0376 Timing Reference High Resolution Signal "B" Too Many Pulses P0377 Timing Reference High Resolution Signal "B" Too Few Pulses P0378 Timing Reference High Resolution Signal "B" Intermittent/Erratic Pulses

# **DTC (Trouble Codes)** P0379 Timing Reference High Resolution Signal "B" No Pulses P0380 Glow Plug/Heater Circuit "A" P0381 Glow Plug/Heater Indicator Circuit P0382 Glow Plug/Heater Circuit "B" P0383 Reserved by SAE J2012 P0384 | Reserved by SAE J2012 P0385 Crankshaft Position Sensor "B" Circuit P0386 Crankshaft Position Sensor "B" Circuit Range/Performance P0387 Crankshaft Position Sensor "B" Circuit Low P0388 Crankshaft Position Sensor "B" Circuit High P0389 Crankshaft Position Sensor "B" Circuit Intermittent P0390 Camshaft Position Sensor "B" Circuit P0391 | Camshaft Position Sensor "B" Circuit Range/Performance P0392 Camshaft Position Sensor "B" Circuit Low P0393 | Camshaft Position Sensor "B" Circuit High P0394 Camshaft Position Sensor "B" Circuit Intermittent P0400 Exhaust Gas Recirculation Flow P0401 Exhaust Gas Recirculation Flow Insufficient Detected P0402 Exhaust Gas Recirculation Flow Excessive Detected P0403 Exhaust Gas Recirculation Control Circuit P0404 Exhaust Gas Recirculation Control Circuit Range/Performance P0405 Exhaust Gas Recirculation Sensor "A" Circuit Low P0406 Exhaust Gas Recirculation Sensor "A" Circuit High P0407 Exhaust Gas Recirculation Sensor "B" Circuit Low P0408 Exhaust Gas Recirculation Sensor "B" Circuit High P0409 Exhaust Gas Recirculation Sensor "A" Circuit P0410 Secondary Air Injection System P0411 | Secondary Air Injection System Incorrect Flow Detected P0412 | Secondary Air Injection System Switching Valve "A" Circuit P0413 | Secondary Air Injection System Switching Valve "A" Circuit Open P0414 | Secondary Air Injection System Switching Valve "A" Circuit Shorted P0415 | Secondary Air Injection System Switching Valve "B" Circuit P0416 | Secondary Air Injection System Switching Valve "B" Circuit Open P0417 | Secondary Air Injection System Switching Valve "B" Circuit Shorted P0418 | Secondary Air Injection System Control "A" Circuit P0419 | Secondary Air Injection System Control "B" Circuit P0420 Catalyst System Efficiency Below Threshold P0421 Warm Up Catalyst Efficiency Below Threshold P0422 Main Catalyst Efficiency Below Threshold P0423 | Heated Catalyst Efficiency Below Threshold P0424 | Heated Catalyst Temperature Below Threshold P0425 Catalyst Temperature Sensor

	DTC (Trouble Codes)
P0426	Catalyst Temperature Sensor Range/Performance
P0427	Catalyst Temperature Sensor Low
P0428	Catalyst Temperature Sensor High
P0429	Catalyst Heater Control Circuit
P0430	Catalyst System Efficiency Below Threshold
P0431	Warm Up Catalyst Efficiency Below Threshold
P0432	Main Catalyst Efficiency Below Threshold
P0433	Heated Catalyst Efficiency Below Threshold
P0434	Heated Catalyst Temperature Below Threshold
P0435	Catalyst Temperature Sensor
P0436	Catalyst Temperature Sensor Range/Performance
P0437	Catalyst Temperature Sensor Low
P0438	Catalyst Temperature Sensor High
P0439	Catalyst Heater Control Circuit
P0440	Evaporative Emission System
P0441	Evaporative Emission System Incorrect Purge Flow
P0442	Evaporative Emission System Leak Detected (small leak)
P0443	Evaporative Emission System Purge Control Valve Circuit
P0444	Evaporative Emission System Purge Control Valve Circuit Open
P0445	Evaporative Emission System Purge Control Valve Circuit Shorted
P0446	Evaporative Emission System Vent Control Circuit
P0447	Evaporative Emission System Vent Control Circuit Open
P0448	Evaporative Emission System Vent Control Circuit Shorted
P0449	Evaporative Emission System Vent Valve/Solenoid Circuit
P0450	Evaporative Emission System Pressure Sensor/Switch
P0451	Evaporative Emission System Pressure Sensor/Switch Range/Performance
P0452	Evaporative Emission System Pressure Sensor/Switch Low
P0453	Evaporative Emission System Pressure Sensor/Switch High
P0454	Evaporative Emission System Pressure Sensor/Switch Intermittent
P0455	Evaporative Emission System Leak Detected (large leak)
P0456	Evaporative Emission System Leak Detected (very small leak)
P0457	Evaporative Emission System Leak Detected (fuel cap loose/off)
P0458	Evaporative Emission System Purge Control Valve Circuit Low
P0459	Evaporative Emission System Purge Control Valve Circuit High
P0460	Fuel Level Sensor "A" Circuit
P0461	Fuel Level Sensor "A" Circuit Range/Performance
P0462	Fuel Level Sensor "A" Circuit Low
P0463	Fuel Level Sensor "A" Circuit High
P0464	Fuel Level Sensor "A" Circuit Intermittent
P0465	EVAP Purge Flow Sensor Circuit
P0466	EVAP Purge Flow Sensor Circuit Range/Performance
P0467	EVAP Purge Flow Sensor Circuit Low

# **DTC (Trouble Codes)** P0468 EVAP Purge Flow Sensor Circuit High P0469 EVAP Purge Flow Sensor Circuit Intermittent P0470 Exhaust Pressure Sensor P0471 Exhaust Pressure Sensor Range/Performance P0472 Exhaust Pressure Sensor Low P0473 Exhaust Pressure Sensor High P0474 Exhaust Pressure Sensor Intermittent P0475 Exhaust Pressure Control Valve P0476 Exhaust Pressure Control Valve Range/Performance P0477 Exhaust Pressure Control Valve Low P0478 Exhaust Pressure Control Valve High P0479 Exhaust Pressure Control Valve Intermittent P0480 Fan 1 Control Circuit P0481 Fan 2 Control Circuit P0482 Fan 3 Control Circuit P0483 Fan Rationality Check P0484 Fan Circuit Over Current P0485 Fan Power/Ground Circuit P0486 Exhaust Gas Recirculation Sensor "B" Circuit P0487 Exhaust Gas Recirculation Throttle Position Control Circuit P0488 Exhaust Gas Recirculation Throttle Position Control Range/Performance P0489 Exhaust Gas Recirculation Control Circuit Low P0490 Exhaust Gas Recirculation Control Circuit High P0491 | Secondary Air Injection System Insufficient Flow P0492 | Secondary Air Injection System Insufficient Flow P0493 Fan Overspeed P0494 Fan Speed Low P0495 Fan Speed High P0496 | Evaporative Emission System High Purge Flow P0497 Evaporative Emission System Low Purge Flow P0498 Evaporative Emission System Vent Valve Control Circuit Low P0499 Evaporative Emission System Vent Valve Control Circuit High P0500 Vehicle Speed Sensor "A" P0501 Vehicle Speed Sensor "A" Range/Performance P0502 Vehicle Speed Sensor "A" Circuit Low Input P0503 Vehicle Speed Sensor "A" Intermittent/Erratic/High P0504 Brake Switch "A"/"B" Correlation P0505 Idle Air Control System P0506 Idle Air Control System RPM Lower Than Expected P0507 Idle Air Control System RPM Higher Than Expected P0508 Idle Air Control System Circuit Low P0509 Idle Air Control System Circuit High

# **DTC (Trouble Codes)** P0510 Closed Throttle Position Switch P0511 Idle Air Control Circuit P0512 Starter Request Circuit P0513 Incorrect Immobilizer Key P0514 Battery Temperature Sensor Circuit Range/Performance P0515 Battery Temperature Sensor Circuit P0516 | Battery Temperature Sensor Circuit Low P0517 Battery Temperature Sensor Circuit High P0518 Idle Air Control Circuit Intermittent P0519 Idle Air Control System Performance P0520 Engine Oil Pressure Sensor/Switch Circuit P0521 Engine Oil Pressure Sensor/Switch Range/Performance P0522 Engine Oil Pressure Sensor/Switch Low Voltage P0523 Engine Oil Pressure Sensor/Switch High Voltage P0524 Engine Oil Pressure Too Low P0525 Cruise Control Servo Control Circuit Range/Performance P0526 Fan Speed Sensor Circuit P0527 Fan Speed Sensor Circuit Range/Performance P0528 Fan Speed Sensor Circuit No Signal P0529 Fan Speed Sensor Circuit Intermittent P0530 A/C Refrigerant Pressure Sensor "A" Circuit P0531 A/C Refrigerant Pressure Sensor "A" Circuit Range/Performance P0532 A/C Refrigerant Pressure Sensor "A" Circuit Low P0533 A/C Refrigerant Pressure Sensor "A" Circuit High P0534 | Air Conditioner Refrigerant Charge Loss P0535 A/C Evaporator Temperature Sensor Circuit P0536 A/C Evaporator Temperature Sensor Circuit Range/Performance P0537 A/C Evaporator Temperature Sensor Circuit Low P0538 A/C Evaporator Temperature Sensor Circuit High P0539 A/C Evaporator Temperature Sensor Circuit Intermittent P0540 Intake Air Heater "A" Circuit P0541 Intake Air Heater "A" Circuit Low P0542 Intake Air Heater "A" Circuit High P0543 Intake Air Heater "A" Circuit Open P0544 Exhaust Gas Temperature Sensor Circuit P0545 Exhaust Gas Temperature Sensor Circuit Low P0546 Exhaust Gas Temperature Sensor Circuit High P0547 Exhaust Gas Temperature Sensor Circuit P0548 Exhaust Gas Temperature Sensor Circuit Low P0549 Exhaust Gas Temperature Sensor Circuit High P0550 Power Steering Pressure Sensor/Switch Circuit P0551 Power Steering Pressure Sensor/Switch Circuit Range/Performance

	DTC (Trouble Codes)	
P0552	Power Steering Pressure Sensor/Switch Circuit Low Input	
P0553	Power Steering Pressure Sensor/Switch Circuit High Input	
P0554	Power Steering Pressure Sensor/Switch Circuit Intermittent	
P0555	Brake Booster Pressure Sensor Circuit	
P0556	Brake Booster Pressure Sensor Circuit Range/Performance	
P0557	Brake Booster Pressure Sensor Circuit Low Input	
P0558	Brake Booster Pressure Sensor Circuit High Input	
P0559	Brake Booster Pressure Sensor Circuit Intermittent	
P0560	System Voltage	
P0561	System Voltage Unstable	
P0562	System Voltage Low	
P0563	System Voltage High	
P0564	Cruise Control Multi-Function Input "A" Circuit	
P0565	Cruise Control On Signal	
P0566	Cruise Control Off Signal	
P0567	Cruise Control Resume Signal	
P0568	Cruise Control Set Signal	
P0569	Cruise Control Coast Signal	
P0570	Cruise Control Accelerate Signal	
P0571	Brake Switch "A" Circuit	
P0572	Brake Switch "A" Circuit Low	
P0573	Brake Switch "A" Circuit High	
P0574	Cruise Control System - Vehicle Speed Too High	
P0575	Cruise Control Input Circuit	
P0576	Cruise Control Input Circuit Low	
P0577	Cruise Control Input Circuit High	
P0578	Cruise Control Multi-Function Input "A" Circuit Stuck	
P0579	Cruise Control Multi-Function Input "A" Circuit Range/Performance	
P0580	Cruise Control Multi-Function Input "A" Circuit Low	
P0581	Cruise Control Multi-Function Input "A" Circuit High	
P0582	Cruise Control Vacuum Control Circuit/Open	
P0583	Cruise Control Vacuum Control Circuit Low	
P0584	Cruise Control Vacuum Control Circuit High	
P0585	Cruise Control Multi-Function Input "A"/"B" Correlation	
P0586	Cruise Control Vent Control Circuit/Open	
P0587	Cruise Control Vent Control Circuit Low	
P0588	Cruise Control Vent Control Circuit High	
P0589	Cruise Control Multi-Function Input "B" Circuit	
P0590	Cruise Control Multi-Function Input "B" Circuit Stuck	
P0591	Cruise Control Multi-Function Input "B" Circuit Range/Performance	
P0592	Cruise Control Multi-Function Input "B" Circuit Low	
P0593	Cruise Control Multi-Function Input "B" Circuit High	

	DTC (Trouble Codes)
P0594	Cruise Control Servo Control Circuit/Open
P0595	Cruise Control Servo Control Circuit Low
P0596	Cruise Control Servo Control Circuit High
P0597	Thermostat Heater Control Circuit/Open
P0598	Thermostat Heater Control Circuit Low
P0599	Thermostat Heater Control Circuit High
P0600	Serial Communication Link
P0601	Internal Control Module Memory Check Sum Error
P0602	Control Module Programming Error
P0603	Internal Control Module Keep Alive Memory (KAM) Error
P0604	Internal Control Module Random Access Memory (RAM) Error
P0605	Internal Control Module Read Only Memory (ROM) Error
P0606	ECM/PCM Processor
P0607	Control Module Performance
P0608	Control Module VSS Output "A"
P0609	Control Module VSS Output "B"
P0610	Control Module Vehicle Options Error
P0611	Fuel Injector Control Module Performance
P0612	Fuel Injector Control Module Relay Control
P0613	TCM Processor
P0614	ECM / TCM Incompatible
P0615	Starter Relay Circuit
P0616	Starter Relay Circuit Low
P0617	Starter Relay Circuit High
P0618	Alternative Fuel Control Module KAM Error
P0619	Alternative Fuel Control Module RAM/ROM Error
P0620	Generator Control Circuit
P0621	Generator Lamp/L Terminal Circuit
P0622	Generator Field/F Terminal Circuit
P0623	Generator Lamp Control Circuit
P0624	Fuel Cap Lamp Control Circuit
P0625	Generator Field/F Terminal Circuit Low
P0626	Generator Field/F Terminal Circuit High
P0627	Fuel Pump "A" Control Circuit /Open
P0628	Fuel Pump "A" Control Circuit Low
P0629	Fuel Pump "A" Control Circuit High
P0630	VIN Not Programmed or Incompatible - ECM/PCM
P0631	VIN Not Programmed or Incompatible - TCM
P0632	Odometer Not Programmed - ECM/PCM
P0633	Immobilizer Key Not Programmed - ECM/PCM
P0634	PCM/ECM/TCM Internal Temperature Too High
P0635	Power Steering Control Circuit

# **DTC (Trouble Codes)** P0636 Power Steering Control Circuit Low P0637 Power Steering Control Circuit High P0638 | Throttle Actuator Control Range/Performance P0639 | Throttle Actuator Control Range/Performance P0640 Intake Air Heater Control Circuit P0641 | Sensor Reference Voltage "A" Circuit/Open P0642 | Sensor Reference Voltage "A" Circuit Low P0643 | Sensor Reference Voltage "A" Circuit High P0644 Driver Display Serial Communication Circuit P0645 A/C Clutch Relay Control Circuit P0646 A/C Clutch Relay Control Circuit Low P0647 A/C Clutch Relay Control Circuit High P0648 Immobilizer Lamp Control Circuit P0649 | Speed Control Lamp Control Circuit P0650 | Malfunction Indicator Lamp (MIL) Control Circuit P0651 | Sensor Reference Voltage "B" Circuit/Open P0652 | Sensor Reference Voltage "B" Circuit Low P0653 Sensor Reference Voltage "B" Circuit High P0654 Engine RPM Output Circuit P0655 Engine Hot Lamp Output Control Circuit P0656 Fuel Level Output Circuit P0657 | Actuator Supply Voltage "A" Circuit/Open P0658 Actuator Supply Voltage "A" Circuit Low P0659 Actuator Supply Voltage "A" Circuit High P0660 Intake Manifold Tuning Valve Control Circuit/Open P0661 Intake Manifold Tuning Valve Control Circuit Low P0662 Intake Manifold Tuning Valve Control Circuit High P0663 Intake Manifold Tuning Valve Control Circuit/Open P0664 Intake Manifold Tuning Valve Control Circuit Low P0665 Intake Manifold Tuning Valve Control Circuit High P0666 PCM/ECM/TCM Internal Temperature Sensor Circuit P0667 PCM/ECM/TCM Internal Temperature Sensor Range/Performance P0668 PCM/ECM/TCM Internal Temperature Sensor Circuit Low P0669 PCM/ECM/TCM Internal Temperature Sensor Circuit High P0670 Glow Plug Module Control Circuit P0671 Cylinder 1 Glow Plug Circuit P0672 Cylinder 2 Glow Plug Circuit P0673 Cylinder 3 Glow Plug Circuit P0674 Cylinder 4 Glow Plug Circuit P0675 Cylinder 5 Glow Plug Circuit P0676 Cylinder 6 Glow Plug Circuit P0677 Cylinder 7 Glow Plug Circuit

	DTC (Trouble Codes)	
P0678	Cylinder 8 Glow Plug Circuit	
P0679	Cylinder 9 Glow Plug Circuit	
P0680	Cylinder 10 Glow Plug Circuit	
P0681	Cylinder 11 Glow Plug Circuit	
P0682	Cylinder 12 Glow Plug Circuit	
P0683	Glow Plug Control Module to PCM Communication Circuit	
P0684	Glow Plug Control Module to PCM Communication Circuit Range/Performance	
P0685	ECM/PCM Power Relay Control Circuit /Open	
P0686	ECM/PCM Power Relay Control Circuit Low	
P0687	ECM/PCM Power Relay Control Circuit High	
P0688	ECM/PCM Power Relay Sense Circuit /Open	
P0689	ECM/PCM Power Relay Sense Circuit Low	
P0690	ECM/PCM Power Relay Sense Circuit High	
P0691	Fan 1 Control Circuit Low	
P0692	Fan 1 Control Circuit High	
P0693	Fan 2 Control Circuit Low	
P0694	Fan 2 Control Circuit High	
P0695	Fan 3 Control Circuit Low	
P0696	Fan 3 Control Circuit High	
P0697	Sensor Reference Voltage "C" Circuit/Open	
P0698	Sensor Reference Voltage "C" Circuit Low	
P0699	Sensor Reference Voltage "C" Circuit High	
P0700	Transmission Control System (MIL Request)	
P0701	Transmission Control System Range/Performance	
P0702	Transmission Control System Electrical	
P0703	Brake Switch "B" Circuit	
P0704	Clutch Switch Input Circuit Malfunction	
P0705	Transmission Range Sensor Circuit Malfunction (PRNDL Input)	
P0706	Transmission Range Sensor Circuit Range/Performance	
P0707	Transmission Range Sensor Circuit Low	
P0708	Transmission Range Sensor Circuit High	
P0709	Transmission Range Sensor Circuit Intermittent	
P0710	Transmission Fluid Temperature Sensor "A" Circuit	
P0711	Transmission Fluid Temperature Sensor "A" Circuit Range/Performance	
P0712	Transmission Fluid Temperature Sensor "A" Circuit Low	
P0713	Transmission Fluid Temperature Sensor "A" Circuit High	
P0714	Transmission Fluid Temperature Sensor "A" Circuit Intermittent	
P0715	Input/Turbine Speed Sensor "A" Circuit	
P0716	Input/Turbine Speed Sensor "A" Circuit Range/Performance	
P0717	Input/Turbine Speed Sensor "A" Circuit No Signal	
P0718	Input/Turbine Speed Sensor "A" Circuit Intermittent	
P0719	Brake Switch "B" Circuit Low	

	DTC (Trouble Codes)	
P0720	Output Speed Sensor Circuit	
P0721	Output Speed Sensor Circuit Range/Performance	
P0722	Output Speed Sensor Circuit No Signal	
P0723	Output Speed Sensor Circuit Intermittent	
P0724	Brake Switch "B" Circuit High	
P0725	Engine Speed Input Circuit	
P0726	Engine Speed Input Circuit Range/Performance	
P0727	Engine Speed Input Circuit No Signal	
P0728	Engine Speed Input Circuit Intermittent	
P0729	Gear 6 Incorrect Ratio	
P0730	Incorrect Gear Ratio	
P0731	Gear 1 Incorrect Ratio	
P0732	Gear 2 Incorrect Ratio	
P0733	Gear 3 Incorrect Ratio	
P0734	Gear 4 Incorrect Ratio	
P0735	Gear 5 Incorrect Ratio	
P0736	Reverse Incorrect Ratio	
P0737	TCM Engine Speed Output Circuit	
P0738	TCM Engine Speed Output Circuit Low	
P0739	TCM Engine Speed Output Circuit High	
P0740	Torque Converter Clutch Circuit/Open	
P0741	Torque Converter Clutch Circuit Performance or Stuck Off	
P0742	Torque Converter Clutch Circuit Stuck On	
P0743	Torque Converter Clutch Circuit Electrical	
P0744	Torque Converter Clutch Circuit Intermittent	
P0745	Pressure Control Solenoid "A"	
P0746	Pressure Control Solenoid "A" Performance or Stuck Off	
P0747	Pressure Control Solenoid "A" Stuck On	
P0748	Pressure Control Solenoid "A" Electrical	
P0749	Pressure Control Solenoid "A" Intermittent	
P0750	Shift Solenoid "A"	
P0751	Shift Solenoid "A" Performance or Stuck Off	
P0752	Shift Solenoid "A" Stuck On	
P0753	Shift Solenoid "A" Electrical	
P0754	Shift Solenoid "A" Intermittent	
P0755	Shift Solenoid "B"	
P0756	Shift Solenoid "B" Performance or Stuck Off	
P0757	Shift Solenoid "B" Stuck On	
P0758	Shift Solenoid "B" Electrical	
P0759	Shift Solenoid "B" Intermittent	
P0760	Shift Solenoid "C"	
P0761	Shift Solenoid "C" Performance or Stuck Off	

# **DTC (Trouble Codes)** P0762 | Shift Solenoid "C" Stuck On P0763 | Shift Solenoid "C" Electrical P0764 | Shift Solenoid "C" Intermittent P0765 | Shift Solenoid "D" P0766 | Shift Solenoid "D" Performance or Stuck Off P0767 | Shift Solenoid "D" Stuck On P0768 | Shift Solenoid "D" Electrical P0769 | Shift Solenoid "D" Intermittent P0770 | Shift Solenoid "E" P0771 | Shift Solenoid "E" Performance or Stuck Off P0772 | Shift Solenoid "E" Stuck On P0773 | Shift Solenoid "E" Electrical P0774 | Shift Solenoid "E" Intermittent P0775 Pressure Control Solenoid "B" P0776 Pressure Control Solenoid "B" Performance or Stuck off P0777 Pressure Control Solenoid "B" Stuck On P0778 Pressure Control Solenoid "B" Electrical P0779 Pressure Control Solenoid "B" Intermittent P0780 Shift Error P0781 1-2 Shift P0782 2-3 Shift P0783 3-4 Shift P0784 4-5 Shift P0785 | Shift/Timing Solenoid P0786 | Shift/Timing Solenoid Range/Performance P0787 | Shift/Timing Solenoid Low P0788 | Shift/Timing Solenoid High P0789 | Shift/Timing Solenoid Intermittent P0790 Normal/Performance Switch Circuit P0791 Intermediate Shaft Speed Sensor "A" Circuit P0792 Intermediate Shaft Speed Sensor "A" Circuit Range/Performance P0793 Intermediate Shaft Speed Sensor "A" Circuit No Signal P0794 Intermediate Shaft Speed Sensor "A" Circuit Intermittent P0795 Pressure Control Solenoid "C" P0796 Pressure Control Solenoid "C" Performance or Stuck off P0797 Pressure Control Solenoid "C" Stuck On P0798 Pressure Control Solenoid "C" Electrical P0799 Pressure Control Solenoid "C" Intermittent P0800 Transfer Case Control System (MIL Request) P0801 Reverse Inhibit Control Circuit P0802 Transmission Control System MIL Request Circuit/Open P0803 1-4 Upshift (Skip Shift) Solenoid Control Circuit

	DTC (Trouble Codes)	
P0804	1-4 Upshift (Skip Shift) Lamp Control Circuit	
P0805	Clutch Position Sensor Circuit	
P0806	Clutch Position Sensor Circuit Range/Performance	
P0807	Clutch Position Sensor Circuit Low	
P0808	Clutch Position Sensor Circuit High	
P0809	Clutch Position Sensor Circuit Intermittent	
P0810	Clutch Position Control Error	
P0811	Excessive Clutch Slippage	
P0812	Reverse Input Circuit	
P0813	Reverse Output Circuit	
P0814	Transmission Range Display Circuit	
P0815	Upshift Switch Circuit	
P0816	Downshift Switch Circuit	
P0817	Starter Disable Circuit	
P0818	Driveline Disconnect Switch Input Circuit	
P0819	Up and Down Shift Switch to Transmission Range Correlation	
P0820	Gear Lever X-Y Position Sensor Circuit	
P0821	Gear Lever X Position Circuit	
P0822	Gear Lever Y Position Circuit	
P0823	Gear Lever X Position Circuit Intermittent	
P0824	Gear Lever Y Position Circuit Intermittent	
P0825	Gear Lever Push-Pull Switch (Shift Anticipate)	
P0826	Up and Down Shift Switch Circuit	
P0827	Up and Down Shift Switch Circuit Low	
P0828	Up and Down Shift Switch Circuit High	
P0829	5-6 Shift	
P0830	Clutch Pedal Switch "A" Circuit	
P0831	Clutch Pedal Switch "A" Circuit Low	
P0832	Clutch Pedal Switch "A" Circuit High	
P0833	Clutch Pedal Switch "B" Circuit	
P0834	Clutch Pedal Switch "B" Circuit Low	
P0835	Clutch Pedal Switch "B" Circuit High	
P0836	Four Wheel Drive (4WD) Switch Circuit	
P0837	Four Wheel Drive (4WD) Switch Circuit Range/Performance	
P0838	Four Wheel Drive (4WD) Switch Circuit Low	
P0839	Four Wheel Drive (4WD) Switch Circuit High	
P0840	Transmission Fluid Pressure Sensor/Switch "A" Circuit	
P0841	Transmission Fluid Pressure Sensor/Switch "A" Circuit Range/Performance	
P0842	Transmission Fluid Pressure Sensor/Switch "A" Circuit Low	
P0843	Transmission Fluid Pressure Sensor/Switch "A" Circuit High	
P0844	Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent	
P0845	Transmission Fluid Pressure Sensor/Switch "B" Circuit	

# **DTC (Trouble Codes)** P0846 Transmission Fluid Pressure Sensor/Switch "B" Circuit Range/Performance P0847 Transmission Fluid Pressure Sensor/Switch "B" Circuit Low P0848 Transmission Fluid Pressure Sensor/Switch "B" Circuit High P0849 Transmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent P0850 Park/Neutral Switch Input Circuit P0851 | Park/Neutral Switch Input Circuit Low P0852 Park/Neutral Switch Input Circuit High P0853 Drive Switch Input Circuit P0854 Drive Switch Input Circuit Low P0855 Drive Switch Input Circuit High P0856 Traction Control Input Signal P0857 Traction Control Input Signal Range/Performance P0858 Traction Control Input Signal Low P0859 Traction Control Input Signal High P0860 Gear Shift Module Communication Circuit P0861 Gear Shift Module Communication Circuit Low P0862 Gear Shift Module Communication Circuit High P0863 TCM Communication Circuit P0864 TCM Communication Circuit Range/Performance P0865 TCM Communication Circuit Low P0866 TCM Communication Circuit High P0867 Transmission Fluid Pressure P0868 Transmission Fluid Pressure Low P0869 Transmission Fluid Pressure High P0870 Transmission Fluid Pressure Sensor/Switch "C" Circuit P0871 Transmission Fluid Pressure Sensor/Switch "C" Circuit Range/Performance P0872 Transmission Fluid Pressure Sensor/Switch "C" Circuit Low P0873 Transmission Fluid Pressure Sensor/Switch "C" Circuit High P0874 Transmission Fluid Pressure Sensor/Switch "C" Circuit Intermittent P0875 Transmission Fluid Pressure Sensor/Switch "D" Circuit P0876 Transmission Fluid Pressure Sensor/Switch "D" Circuit Range/Performance P0877 Transmission Fluid Pressure Sensor/Switch "D" Circuit Low P0878 Transmission Fluid Pressure Sensor/Switch "D" Circuit High P0879 Transmission Fluid Pressure Sensor/Switch "D" Circuit Intermittent P0880 TCM Power Input Signal P0881 TCM Power Input Signal Range/Performance P0882 TCM Power Input Signal Low P0883 TCM Power Input Signal High P0884 TCM Power Input Signal Intermittent P0885 TCM Power Relay Control Circuit/Open P0886 TCM Power Relay Control Circuit Low P0887 TCM Power Relay Control Circuit High

# **DTC (Trouble Codes)** P0888 TCM Power Relay Sense Circuit P0889 TCM Power Relay Sense Circuit Range/Performance P0890 TCM Power Relay Sense Circuit Low P0891 TCM Power Relay Sense Circuit High P0892 TCM Power Relay Sense Circuit Intermittent P0893 Multiple Gears Engaged P0894 Transmission Component Slipping P0895 | Shift Time Too Short P0896 Shift Time Too Long P0897 Transmission Fluid Deteriorated P0898 Transmission Control System MIL Request Circuit Low P0899 Transmission Control System MIL Request Circuit High P0900 | Clutch Actuator Circuit/Open P0901 Clutch Actuator Circuit Range/Performance P0902 Clutch Actuator Circuit Low P0903 Clutch Actuator Circuit High P0904 | Gate Select Position Circuit P0905 Gate Select Position Circuit Range/Performance P0906 Gate Select Position Circuit Low P0907 | Gate Select Position Circuit High P0908 Gate Select Position Circuit Intermittent P0909 Gate Select Control Error P0910 Gate Select Actuator Circuit/Open P0911 | Gate Select Actuator Circuit Range/Performance P0912 Gate Select Actuator Circuit Low P0913 Gate Select Actuator Circuit High P0914 Gear Shift Position Circuit P0915 Gear Shift Position Circuit Range/Performance P0916 Gear Shift Position Circuit Low P0917 Gear Shift Position Circuit High P0918 Gear Shift Position Circuit Intermittent P0919 Gear Shift Position Control Error P0920 Gear Shift Forward Actuator Circuit/Open P0921 | Gear Shift Forward Actuator Circuit Range/Performance P0922 Gear Shift Forward Actuator Circuit Low P0923 | Gear Shift Forward Actuator Circuit High P0924 Gear Shift Reverse Actuator Circuit/Open P0925 | Gear Shift Reverse Actuator Circuit Range/Performance P0926 Gear Shift Reverse Actuator Circuit Low P0927 Gear Shift Reverse Actuator Circuit High P0928 Gear Shift Lock Solenoid Control Circuit/Open P0929 Gear Shift Lock Solenoid Control Circuit Range/Performance

	DTC (Trouble Codes)	
P0930	Gear Shift Lock Solenoid Control Circuit Low	
P0931	Gear Shift Lock Solenoid Control Circuit High	
P0932	Hydraulic Pressure Sensor Circuit	
P0933	Hydraulic Pressure Sensor Range/Performance	
P0934	Hydraulic Pressure Sensor Circuit Low	
P0935	Hydraulic Pressure Sensor Circuit High	
P0936	Hydraulic Pressure Sensor Circuit Intermittent	
P0937	Hydraulic Oil Temperature Sensor Circuit	
P0938	Hydraulic Oil Temperature Sensor Range/Performance	
P0939	Hydraulic Oil Temperature Sensor Circuit Low	
P0940	Hydraulic Oil Temperature Sensor Circuit High	
P0941	Hydraulic Oil Temperature Sensor Circuit Intermittent	
P0942	Hydraulic Pressure Unit	
P0943	Hydraulic Pressure Unit Cycling Period Too Short	
P0944	Hydraulic Pressure Unit Loss of Pressure	
P0945	Hydraulic Pump Relay Circuit/Open	
P0946	Hydraulic Pump Relay Circuit Range/Performance	
P0947	Hydraulic Pump Relay Circuit Low	
P0948	Hydraulic Pump Relay Circuit High	
P0949	Auto Shift Manual Adaptive Learning Not Complete	
P0950	Auto Shift Manual Control Circuit	
P0951	Auto Shift Manual Control Circuit Range/Performance	
P0952	Auto Shift Manual Control Circuit Low	
P0953	Auto Shift Manual Control Circuit High	
P0954	Auto Shift Manual Control Circuit Intermittent	
P0955	Auto Shift Manual Mode Circuit	
P0956	Auto Shift Manual Mode Circuit Range/Performance	
P0957	Auto Shift Manual Mode Circuit Low	
P0958	Auto Shift Manual Mode Circuit High	
P0959	Auto Shift Manual Mode Circuit Intermittent	
P0960	Pressure Control Solenoid "A" Control Circuit/Open	
P0961	Pressure Control Solenoid "A" Control Circuit Range/Performance	
P0962	Pressure Control Solenoid "A" Control Circuit Low	
P0963	Pressure Control Solenoid "A" Control Circuit High	
P0964	Pressure Control Solenoid "B" Control Circuit/Open	
P0965	Pressure Control Solenoid "B" Control Circuit Range/Performance	
P0966	Pressure Control Solenoid "B" Control Circuit Low	
P0967	Pressure Control Solenoid "B" Control Circuit High	
P0968	Pressure Control Solenoid "C" Control Circuit/Open	
P0969	Pressure Control Solenoid "C" Control Circuit Range/Performance	
P0970	Pressure Control Solenoid "C" Control Circuit Low	
P0971	Pressure Control Solenoid "C" Control Circuit High	

	DTC (Trouble Codes)	
P0972	Shift Solenoid "A" Control Circuit Range/Performance	
P0973	Shift Solenoid "A" Control Circuit Low	
P0974	Shift Solenoid "A" Control Circuit High	
P0975	Shift Solenoid "B" Control Circuit Range/Performance	
P0976	Shift Solenoid "B" Control Circuit Low	
P0977	Shift Solenoid "B" Control Circuit High	
P0978	Shift Solenoid "C" Control Circuit Range/Performance	
P0979	Shift Solenoid "C" Control Circuit Low	
P0980	Shift Solenoid "C" Control Circuit High	
P0981	Shift Solenoid "D" Control Circuit Range/Performance	
P0982	Shift Solenoid "D" Control Circuit Low	
P0983	Shift Solenoid "D" Control Circuit High	
P0984	Shift Solenoid "E" Control Circuit Range/Performance	
P0985	Shift Solenoid "E" Control Circuit Low	
P0986	Shift Solenoid "E" Control Circuit High	
P0987	Transmission Fluid Pressure Sensor/Switch "E" Circuit	
P0988	Transmission Fluid Pressure Sensor/Switch "E" Circuit Range/Performance	
P0989	Transmission Fluid Pressure Sensor/Switch "E" Circuit Low	
P0990	Transmission Fluid Pressure Sensor/Switch "E" Circuit High	
P0991	Transmission Fluid Pressure Sensor/Switch "E" Circuit Intermittent	
P0992	Transmission Fluid Pressure Sensor/Switch "F" Circuit	
P0993	Transmission Fluid Pressure Sensor/Switch "F" Circuit Range/Performance	
P0994	Transmission Fluid Pressure Sensor/Switch "F" Circuit Low	
P0995	Transmission Fluid Pressure Sensor/Switch "F" Circuit High	
P0996	Transmission Fluid Pressure Sensor/Switch "F" Circuit Intermittent	
P0997	Shift Solenoid "F" Control Circuit Range/Performance	
P0998	Shift Solenoid "F" Control Circuit Low	
P0999	Shift Solenoid "F" Control Circuit High	
P0A00	Motor Electronics Coolant Temperature Sensor Circuit	
P0A01	Motor Electronics Coolant Temperature Sensor Circuit Range/Performance	
P0A02	Motor Electronics Coolant Temperature Sensor Circuit Low	
P0A03	Motor Electronics Coolant Temperature Sensor Circuit High	
P0A04	Motor Electronics Coolant Temperature Sensor Circuit Intermittent	
P0A05	Motor Electronics Coolant Pump Control Circuit/Open	
P0A06	Motor Electronics Coolant Pump Control Circuit Low	
P0A07	Motor Electronics Coolant Pump Control Circuit High	
P0A08	DC/DC Converter Status Circuit	
P0A09	DC/DC Converter Status Circuit Low Input	
P0A10	DC/DC Converter Status Circuit High Input	
P0A11	DC/DC Converter Enable Circuit/Open	
P0A12	DC/DC Converter Enable Circuit Low	
P0A13	DC/DC Converter Enable Circuit High	

# **DTC (Trouble Codes)** POA14 Engine Mount Control Circuit/Open POA15 Engine Mount Control Circuit Low POA16 Engine Mount Control Circuit High POA17 Motor Torque Sensor Circuit P0A18 Motor Torque Sensor Circuit Range/Performance POA19 Motor Torque Sensor Circuit Low P0A20 Motor Torque Sensor Circuit High P0A21 | Motor Torque Sensor Circuit Intermittent P0A22 Generator Torque Sensor Circuit P0A23 Generator Torque Sensor Circuit Range/Performance P0A24 Generator Torque Sensor Circuit Low P0A25 Generator Torque Sensor Circuit High P0A26 Generator Torque Sensor Circuit Intermittent P0A27 Battery Power Off Circuit P0A28 Battery Power Off Circuit Low P0A29 Battery Power Off Circuit High P2000 NOx Trap Efficiency Below Threshold P2001 NOx Trap Efficiency Below Threshold P2002 | Particulate Trap Efficiency Below Threshold P2003 Particulate Trap Efficiency Below Threshold P2004 Intake Manifold Runner Control Stuck Open P2005 Intake Manifold Runner Control Stuck Open P2006 Intake Manifold Runner Control Stuck Closed P2007 Intake Manifold Runner Control Stuck Closed P2008 Intake Manifold Runner Control Circuit/Open P2009 Intake Manifold Runner Control Circuit Low P2010 Intake Manifold Runner Control Circuit High P2011 Intake Manifold Runner Control Circuit/Open P2012 Intake Manifold Runner Control Circuit Low P2013 Intake Manifold Runner Control Circuit High P2014 Intake Manifold Runner Position Sensor/Switch Circuit P2015 Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance P2016 Intake Manifold Runner Position Sensor/Switch Circuit Low P2017 Intake Manifold Runner Position Sensor/Switch Circuit High P2018 Intake Manifold Runner Position Sensor/Switch Circuit Intermittent P2019 Intake Manifold Runner Position Sensor/Switch Circuit P2020 Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance P2021 Intake Manifold Runner Position Sensor/Switch Circuit Low P2022 Intake Manifold Runner Position Sensor/Switch Circuit High P2023 Intake Manifold Runner Position Sensor/Switch Circuit Intermittent P2024 Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Circuit P2025 Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Performance

DTC (Trouble Codes)		
P2026	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Circuit Low Voltage	
P2027	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Circuit High Voltage	
P2028	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Circuit Intermittent	
P2029	Fuel Fired Heater Disabled	
P2030	Fuel Fired Heater Performance	
P2031	Exhaust Gas Temperature Sensor Circuit	
P2032	Exhaust Gas Temperature Sensor Circuit Low	
P2033	Exhaust Gas Temperature Sensor Circuit High	
P2034	Exhaust Gas Temperature Sensor Circuit	
P2035	Exhaust Gas Temperature Sensor Circuit Low	
P2036	Exhaust Gas Temperature Sensor Circuit High	
P2037	Reductant Injection Air Pressure Sensor Circuit	
P2038	Reductant Injection Air Pressure Sensor Circuit Range/Performance	
P2039	Reductant Injection Air Pressure Sensor Circuit Low Input	
P2040	Reductant Injection Air Pressure Sensor Circuit High Input	
P2041	Reductant Injection Air Pressure Sensor Circuit Intermittent	
P2042	Reductant Temperature Sensor Circuit	
P2043	Reductant Temperature Sensor Circuit Range/Performance	
P2044	Reductant Temperature Sensor Circuit Low Input	
P2045	Reductant Temperature Sensor Circuit High Input	
P2046	Reductant Temperature Sensor Circuit Intermittent	
P2047	Reductant Injector Circuit/Open	
P2048	Reductant Injector Circuit Low	
P2049	Reductant Injector Circuit High	
P2050	Reductant Injector Circuit/Open	
P2051	Reductant Injector Circuit Low	
P2052	Reductant Injector Circuit High	
P2053	Reductant Injector Circuit/Open	
P2054	Reductant Injector Circuit Low	
P2055	Reductant Injector Circuit High	
P2056	Reductant Injector Circuit/Open	
P2057	Reductant Injector Circuit Low	
P2058	Reductant Injector Circuit High	
P2059	Reductant Injection Air Pump Control Circuit/Open	
P2060	Reductant Injection Air Pump Control Circuit Low	
P2061	Reductant Injection Air Pump Control Circuit High	
P2062	Reductant Supply Control Circuit/Open	
P2063	Reductant Supply Control Circuit Low	
P2064	Reductant Supply Control Circuit High	
P2065	Fuel Level Sensor "B" Circuit	
P2066	Fuel Level Sensor "B" Performance	
P2067	Fuel Level Sensor "B" Circuit Low	

# **DTC (Trouble Codes)** P2068 Fuel Level Sensor "B" Circuit High P2069 | Fuel Level Sensor "B" Circuit Intermittent P2070 Intake Manifold Tuning (IMT) Valve Stuck Open P2071 Intake Manifold Tuning (IMT) Valve Stuck Closed P2075 Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit P2076 Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Range/Performance P2077 Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Low P2078 Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit High P2079 Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Intermittent P2080 Exhaust Gas Temperature Sensor Circuit Range/Performance P2081 Exhaust Gas Temperature Sensor Circuit Intermittent P2082 | Exhaust Gas Temperature Sensor Circuit Range/Performance P2083 Exhaust Gas Temperature Sensor Circuit Intermittent P2084 Exhaust Gas Temperature Sensor Circuit Range/Performance P2085 Exhaust Gas Temperature Sensor Circuit Intermittent P2086 | Exhaust Gas Temperature Sensor Circuit Range/Performance P2087 | Exhaust Gas Temperature Sensor Circuit Intermittent P2088 "A" Camshaft Position Actuator Control Circuit Low P2089 "A" Camshaft Position Actuator Control Circuit High P2090 "B" Camshaft Position Actuator Control Circuit Low P2091 "B" Camshaft Position Actuator Control Circuit High P2092 "A" Camshaft Position Actuator Control Circuit Low P2093 "A" Camshaft Position Actuator Control Circuit High P2094 "B" Camshaft Position Actuator Control Circuit Low P2095 "B" Camshaft Position Actuator Control Circuit High P2096 Post Catalyst Fuel Trim System Too Lean P2097 Post Catalyst Fuel Trim System Too Rich P2098 | Post Catalyst Fuel Trim System Too Lean P2099 | Post Catalyst Fuel Trim System Too Rich P2100 | Throttle Actuator Control Motor Circuit/Open P2101 Throttle Actuator Control Motor Circuit Range/Performance P2102 Throttle Actuator Control Motor Circuit Low P2103 Throttle Actuator Control Motor Circuit High P2104 | Throttle Actuator Control System - Forced Idle P2105 Throttle Actuator Control System - Forced Engine Shutdown P2106 Throttle Actuator Control System - Forced Limited Power P2107 Throttle Actuator Control Module Processor P2108 Throttle Actuator Control Module Performance P2109 | Throttle/Pedal Position Sensor "A" Minimum Stop Performance P2110 Throttle Actuator Control System - Forced Limited RPM P2111 | Throttle Actuator Control System - Stuck Open P2112 Throttle Actuator Control System - Stuck Closed

# **DTC (Trouble Codes)** P2113 Throttle/Pedal Position Sensor "B" Minimum Stop Performance P2114 Throttle/Pedal Position Sensor "C" Minimum Stop Performance P2115 | Throttle/Pedal Position Sensor "D" Minimum Stop Performance P2116 Throttle/Pedal Position Sensor "E" Minimum Stop Performance P2117 | Throttle/Pedal Position Sensor "F" Minimum Stop Performance P2118 Throttle Actuator Control Motor Current Range/Performance P2119 Throttle Actuator Control Throttle Body Range/Performance P2120 Throttle/Pedal Position Sensor/Switch "D" Circuit P2121 | Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance P2122 Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input P2123 Throttle/Pedal Position Sensor/Switch "D" Circuit High Input P2124 Throttle/Pedal Position Sensor/Switch "D" Circuit Intermittent P2125 Throttle/Pedal Position Sensor/Switch "E" Circuit P2126 Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance P2127 Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input P2128 | Throttle/Pedal Position Sensor/Switch "E" Circuit High Input P2129 Throttle/Pedal Position Sensor/Switch "E" Circuit Intermittent P2130 Throttle/Pedal Position Sensor/Switch "F" Circuit P2131 | Throttle/Pedal Position Sensor/Switch "F" Circuit Range Performance P2132 | Throttle/Pedal Position Sensor/Switch "F" Circuit Low Input P2133 | Throttle/Pedal Position Sensor/Switch "F" Circuit High Input P2134 | Throttle/Pedal Position Sensor/Switch "F" Circuit Intermittent P2135 | Throttle/Pedal Position Sensor/Switch "A" / "B" Voltage Correlation P2136 | Throttle/Pedal Position Sensor/Switch "A" / "C" Voltage Correlation P2137 | Throttle/Pedal Position Sensor/Switch "B" / "C" Voltage Correlation P2138 | Throttle/Pedal Position Sensor/Switch "D" / "E" Voltage Correlation P2139 Throttle/Pedal Position Sensor/Switch "D" / "F" Voltage Correlation P2140 | Throttle/Pedal Position Sensor/Switch "E" / "F" Voltage Correlation P2141 Exhaust Gas Recirculation Throttle Control Circuit Low P2142 Exhaust Gas Recirculation Throttle Control Circuit High P2143 Exhaust Gas Recirculation Vent Control Circuit/Open P2144 Exhaust Gas Recirculation Vent Control Circuit Low P2145 Exhaust Gas Recirculation Vent Control Circuit High P2146 | Fuel Injector Group "A" Supply Voltage Circuit/Open P2147 | Fuel Injector Group "A" Supply Voltage Circuit Low P2148 Fuel Injector Group "A" Supply Voltage Circuit High P2149 | Fuel Injector Group "B" Supply Voltage Circuit/Open P2150 | Fuel Injector Group "B" Supply Voltage Circuit Low P2151 Fuel Injector Group "B" Supply Voltage Circuit High P2152 Fuel Injector Group "C" Supply Voltage Circuit/Open P2153 | Fuel Injector Group "C" Supply Voltage Circuit Low P2154 Fuel Injector Group "C" Supply Voltage Circuit High

# **DTC (Trouble Codes)** P2155 Fuel Injector Group "D" Supply Voltage Circuit/Open P2156 Fuel Injector Group "D" Supply Voltage Circuit Low P2157 | Fuel Injector Group "D" Supply Voltage Circuit High P2158 | Vehicle Speed Sensor "B" P2159 Vehicle Speed Sensor "B" Range/Performance P2160 Vehicle Speed Sensor "B" Circuit Low P2161 | Vehicle Speed Sensor "B" Intermittent/Erratic P2162 Vehicle Speed Sensor "A" / "B" Correlation P2163 Throttle/Pedal Position Sensor "A" Maximum Stop Performance P2164 Throttle/Pedal Position Sensor "B" Maximum Stop Performance P2165 Throttle/Pedal Position Sensor "C" Maximum Stop Performance P2166 Throttle/Pedal Position Sensor "D" Maximum Stop Performance P2167 | Throttle/Pedal Position Sensor "E" Maximum Stop Performance P2168 | Throttle/Pedal Position Sensor "F" Maximum Stop Performance P2169 Exhaust Pressure Regulator Vent Solenoid Control Circuit/Open P2170 Exhaust Pressure Regulator Vent Solenoid Control Circuit Low P2171 Exhaust Pressure Regulator Vent Solenoid Control Circuit High P2172 Throttle Actuator Control System - Sudden High Airflow Detected P2173 | Throttle Actuator Control System - High Airflow Detected P2174 Throttle Actuator Control System - Sudden Low Airflow Detected P2175 | Throttle Actuator Control System - Low Airflow Detected P2176 Throttle Actuator Control System - Idle Position Not Learned P2177 | System Too Lean Off Idle P2178 | System Too Rich Off Idle P2179 | System Too Lean Off Idle P2180 | System Too Rich Off Idle P2181 Cooling System Performance P2182 Engine Coolant Temperature Sensor 2 Circuit P2183 Engine Coolant Temperature Sensor 2 Circuit Range/Performance P2184 Engine Coolant Temperature Sensor 2 Circuit Low P2185 Engine Coolant Temperature Sensor 2 Circuit High P2186 Engine Coolant Temperature Sensor 2 Circuit Intermittent/Erratic P2187 System Too Lean at Idle P2188 System Too Rich at Idle P2189 System Too Lean at Idle P2190 System Too Rich at Idle P2191 System Too Lean at Higher Load P2192 | System Too Rich at Higher Load P2193 | System Too Lean at Higher Load P2194 System Too Rich at Higher Load P2195 O2 Sensor Signal Stuck Lean P2196 O2 Sensor Signal Stuck Rich

# **DTC (Trouble Codes)** P2197 O2 Sensor Signal Stuck Lean P2198 O2 Sensor Signal Stuck Rich P2199 Intake Air Temperature Sensor 1 / 2 Correlation P2200 NOx Sensor Circuit P2201 NOx Sensor Circuit Range/Performance P2202 NOx Sensor Circuit Low Input P2203 NOx Sensor Circuit High Input P2204 NOx Sensor Circuit Intermittent Input P2205 NOx Sensor Heater Control Circuit/Open P2206 NOx Sensor Heater Control Circuit Low P2207 NOx Sensor Heater Control Circuit High P2208 NOx Sensor Heater Sense Circuit P2209 NOx Sensor Heater Sense Circuit Range/Performance P2210 NOx Sensor Heater Sense Circuit Low Input P2211 NOx Sensor Heater Sense Circuit High Input P2212 NOx Sensor Heater Sense Circuit Intermittent P2213 NOx Sensor Circuit P2214 NOx Sensor Circuit Range/Performance P2215 NOx Sensor Circuit Low Input P2216 NOx Sensor Circuit High Input P2217 NOx Sensor Circuit Intermittent Input P2218 NOx Sensor Heater Control Circuit/Open P2219 NOx Sensor Heater Control Circuit Low P2220 NOx Sensor Heater Control Circuit High P2221 NOx Sensor Heater Sense Circuit P2222 NOx Sensor Heater Sense Circuit Range/Performance P2223 NOx Sensor Heater Sense Circuit Low P2224 NOx Sensor Heater Sense Circuit High P2225 NOx Sensor Heater Sense Circuit Intermittent P2226 Barometric Pressure Circuit P2227 Barometric Pressure Circuit Range/Performance P2228 Barometric Pressure Circuit Low P2229 Barometric Pressure Circuit High P2230 Barometric Pressure Circuit Intermittent P2231 O2 Sensor Signal Circuit Shorted to Heater Circuit P2232 O2 Sensor Signal Circuit Shorted to Heater Circuit P2233 O2 Sensor Signal Circuit Shorted to Heater Circuit P2234 O2 Sensor Signal Circuit Shorted to Heater Circuit P2235 O2 Sensor Signal Circuit Shorted to Heater Circuit P2236 O2 Sensor Signal Circuit Shorted to Heater Circuit P2237 O2 Sensor Positive Current Control Circuit/Open P2238 O2 Sensor Positive Current Control Circuit Low

# **DTC (Trouble Codes)** P2239 O2 Sensor Positive Current Control Circuit High P2240 O2 Sensor Positive Current Control Circuit/Open P2241 O2 Sensor Positive Current Control Circuit Low P2242 O2 Sensor Positive Current Control Circuit High P2243 O2 Sensor Reference Voltage Circuit/Open P2244 O2 Sensor Reference Voltage Performance P2245 | O2 Sensor Reference Voltage Circuit Low P2246 O2 Sensor Reference Voltage Circuit High P2247 O2 Sensor Reference Voltage Circuit/Open P2248 O2 Sensor Reference Voltage Performance P2249 O2 Sensor Reference Voltage Circuit Low P2250 O2 Sensor Reference Voltage Circuit High P2251 O2 Sensor Negative Current Control Circuit/Open P2252 O2 Sensor Negative Current Control Circuit Low P2253 O2 Sensor Negative Current Control Circuit High P2254 O2 Sensor Negative Current Control Circuit/Open P2255 O2 Sensor Negative Current Control Circuit Low P2256 O2 Sensor Negative Current Control Circuit High P2257 | Secondary Air Injection System Control "A" Circuit Low P2258 | Secondary Air Injection System Control "A" Circuit High P2259 | Secondary Air Injection System Control "B" Circuit Low P2260 | Secondary Air Injection System Control "B" Circuit High P2261 Turbo/Super Charger Bypass Valve - Mechanical P2262 Turbo Boost Pressure Not Detected - Mechanical P2263 Turbo/Super Charger Boost System Performance P2264 Water in Fuel Sensor Circuit P2265 Water in Fuel Sensor Circuit Range/Performance P2266 Water in Fuel Sensor Circuit Low P2267 Water in Fuel Sensor Circuit High P2268 Water in Fuel Sensor Circuit Intermittent P2269 Water in Fuel Condition P2270 O2 Sensor Signal Stuck Lean P2271 O2 Sensor Signal Stuck Rich P2272 O2 Sensor Signal Stuck Lean P2273 O2 Sensor Signal Stuck Rich P2274 O2 Sensor Signal Stuck Lean P2275 O2 Sensor Signal Stuck Rich P2276 O2 Sensor Signal Stuck Lean P2277 O2 Sensor Signal Stuck Rich P2278 O2 Sensor Signals Swapped Bank 1 Sensor 3 / Bank 2 Sensor 3 P2279 Intake Air System Leak P2280 Air Flow Restriction / Air Leak Between Air Filter and MAF

# **DTC (Trouble Codes)** P2281 Air Leak Between MAF and Throttle Body P2282 Air Leak Between Throttle Body and Intake Valves P2283 Injector Control Pressure Sensor Circuit P2284 Injector Control Pressure Sensor Circuit Range/Performance P2285 Injector Control Pressure Sensor Circuit Low P2286 Injector Control Pressure Sensor Circuit High P2287 | Injector Control Pressure Sensor Circuit Intermittent P2288 Injector Control Pressure Too High P2289 Injector Control Pressure Too High - Engine Off P2290 Injector Control Pressure Too Low P2291 Injector Control Pressure Too Low - Engine Cranking P2292 Injector Control Pressure Erratic P2293 Fuel Pressure Regulator 2 Performance P2294 Fuel Pressure Regulator 2 Control Circuit P2295 | Fuel Pressure Regulator 2 Control Circuit Low P2296 | Fuel Pressure Regulator 2 Control Circuit High P2297 O2 Sensor Out of Range During Deceleration P2298 O2 Sensor Out of Range During Deceleration P2299 Brake Pedal Position / Accelerator Pedal Position Incompatible P2300 Ignition Coil "A" Primary Control Circuit Low P2301 Ignition Coil "A" Primary Control Circuit High P2302 Ignition Coil "A" Secondary Circuit P2303 Ignition Coil "B" Primary Control Circuit Low P2304 Ignition Coil "B" Primary Control Circuit High P2305 Ignition Coil "B" Secondary Circuit P2306 Ignition Coil "C" Primary Control Circuit Low P2307 Ignition Coil "C" Primary Control Circuit High P2308 Ignition Coil "C" Secondary Circuit P2309 Ignition Coil "D" Primary Control Circuit Low P2310 | Ignition Coil "D" Primary Control Circuit High P2311 Ignition Coil "D" Secondary Circuit P2312 Ignition Coil "E" Primary Control Circuit Low P2313 Ignition Coil "E" Primary Control Circuit High P2314 Ignition Coil "E" Secondary Circuit P2315 Ignition Coil "F" Primary Control Circuit Low P2316 Ignition Coil "F" Primary Control Circuit High P2317 Ignition Coil "F" Secondary Circuit P2318 Ignition Coil "G" Primary Control Circuit Low P2319 Ignition Coil "G" Primary Control Circuit High P2320 Ignition Coil "G" Secondary Circuit P2321 Ignition Coil "H" Primary Control Circuit Low P2322 Ignition Coil "H" Primary Control Circuit High

# **DTC (Trouble Codes)** P2323 Ignition Coil "H" Secondary Circuit P2324 Ignition Coil "I" Primary Control Circuit Low P2325 Ignition Coil "I" Primary Control Circuit High P2326 Ignition Coil "I" Secondary Circuit P2327 Ignition Coil "J" Primary Control Circuit Low P2328 Ignition Coil "J" Primary Control Circuit High P2329 Ignition Coil "J" Secondary Circuit P2330 Ignition Coil "K" Primary Control Circuit Low P2331 Ignition Coil "K" Primary Control Circuit High P2332 Ignition Coil "K" Secondary Circuit P2333 Ignition Coil "L" Primary Control Circuit Low P2334 Ignition Coil "L" Primary Control Circuit High P2335 Ignition Coil "L" Secondary Circuit P2336 Cylinder #1 Above Knock Threshold P2337 Cylinder #2 Above Knock Threshold P2338 Cylinder #3 Above Knock Threshold P2339 Cylinder #4 Above Knock Threshold P2340 Cylinder #5 Above Knock Threshold P2341 Cylinder #6 Above Knock Threshold P2342 Cylinder #7 Above Knock Threshold P2343 Cylinder #8 Above Knock Threshold P2344 Cylinder #9 Above Knock Threshold P2345 Cylinder #10 Above Knock Threshold P2346 Cylinder #11 Above Knock Threshold P2347 Cylinder #12 Above Knock Threshold P2400 Evaporative Emission System Leak Detection Pump Control Circuit/Open P2401 Evaporative Emission System Leak Detection Pump Control Circuit Low P2402 Evaporative Emission System Leak Detection Pump Control Circuit High P2403 | Evaporative Emission System Leak Detection Pump Sense Circuit/Open P2404 | Evaporative Emission System Leak Detection Pump Sense Circuit Range/Performance P2405 Evaporative Emission System Leak Detection Pump Sense Circuit Low P2406 Evaporative Emission System Leak Detection Pump Sense Circuit High P2407 Evaporative Emission System Leak Detection Pump Sense Circuit Intermittent/Erratic P2408 | Fuel Cap Sensor/Switch Circuit P2409 | Fuel Cap Sensor/Switch Circuit Range/Performance P2410 Fuel Cap Sensor/Switch Circuit Low P2411 Fuel Cap Sensor/Switch Circuit High P2412 Fuel Cap Sensor/Switch Circuit Intermittent/Erratic P2413 Exhaust Gas Recirculation System Performance P2414 O2 Sensor Exhaust Sample Error P2415 O2 Sensor Exhaust Sample Error P2416 O2 Sensor Signals Swapped Bank 1 Sensor 2 / Bank 1 Sensor 3

# **DTC (Trouble Codes)** P2417 O2 Sensor Signals Swapped Bank 2 Sensor 2 / Bank 2 Sensor 3 P2418 Evaporative Emission System Switching Valve Control Circuit / Open P2419 Evaporative Emission System Switching Valve Control Circuit Low P2420 | Evaporative Emission System Switching Valve Control Circuit High P2421 | Evaporative Emission System Vent Valve Stuck Open P2422 | Evaporative Emission System Vent Valve Stuck Closed P2423 | HC Adsorption Catalyst Efficiency Below Threshold P2424 HC Adsorption Catalyst Efficiency Below Threshold P2425 | Exhaust Gas Recirculation Cooling Valve Control Circuit/Open P2426 Exhaust Gas Recirculation Cooling Valve Control Circuit Low P2427 Exhaust Gas Recirculation Cooling Valve Control Circuit High P2428 Exhaust Gas Temperature Too High P2429 Exhaust Gas Temperature Too High P2430 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit P2431 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Range/Performance P2432 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Low P2433 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit High P2434 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Intermittent/Erratic P2435 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit P2436 Secondary Air Injection System Air Flow/Pressure Sensor Circuit Range/Performance P2437 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Low P2438 Secondary Air Injection System Air Flow/Pressure Sensor Circuit High P2439 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Intermittent/Erratic P2440 | Secondary Air Injection System Switching Valve Stuck Open P2441 Secondary Air Injection System Switching Valve Stuck Closed P2442 | Secondary Air Injection System Switching Valve Stuck Open P2443 | Secondary Air Injection System Switching Valve Stuck Closed P2444 | Secondary Air Injection System Pump Stuck On P2445 | Secondary Air Injection System Pump Stuck Off P2446 | Secondary Air Injection System Pump Stuck On P2447 | Secondary Air Injection System Pump Stuck Off P2500 Generator Lamp/L-Terminal Circuit Low P2501 Generator Lamp/L-Terminal Circuit High P2502 Charging System Voltage P2503 Charging System Voltage Low P2504 Charging System Voltage High P2505 ECM/PCM Power Input Signal P2506 ECM/PCM Power Input Signal Range/Performance P2507 ECM/PCM Power Input Signal Low P2508 ECM/PCM Power Input Signal High P2509 ECM/PCM Power Input Signal Intermittent P2510 ECM/PCM Power Relay Sense Circuit Range/Performance

# **DTC (Trouble Codes)** P2511 ECM/PCM Power Relay Sense Circuit Intermittent P2512 Event Data Recorder Request Circuit/ Open P2513 Event Data Recorder Request Circuit Low P2514 Event Data Recorder Request Circuit High P2515 A/C Refrigerant Pressure Sensor "B" Circuit P2516 A/C Refrigerant Pressure Sensor "B" Circuit Range/Performance P2517 A/C Refrigerant Pressure Sensor "B" Circuit Low P2518 A/C Refrigerant Pressure Sensor "B" Circuit High P2519 A/C Request "A" Circuit P2520 A/C Request "A" Circuit Low P2521 A/C Request "A" Circuit High P2522 A/C Request "B" Circuit P2523 A/C Request "B" Circuit Low P2524 A/C Request "B" Circuit High P2525 Vacuum Reservoir Pressure Sensor Circuit P2526 Vacuum Reservoir Pressure Sensor Circuit Range/Performance P2527 Vacuum Reservoir Pressure Sensor Circuit Low P2528 Vacuum Reservoir Pressure Sensor Circuit High P2529 Vacuum Reservoir Pressure Sensor Circuit Intermittent P2530 Ignition Switch Run Position Circuit P2531 Ignition Switch Run Position Circuit Low P2532 Ignition Switch Run Position Circuit High P2533 Ignition Switch Run/Start Position Circuit P2534 Ignition Switch Run/Start Position Circuit Low P2535 Ignition Switch Run/Start Position Circuit High P2536 Ignition Switch Accessory Position Circuit P2537 Ignition Switch Accessory Position Circuit Low P2538 Ignition Switch Accessory Position Circuit High P2539 Low Pressure Fuel System Sensor Circuit P2540 | Low Pressure Fuel System Sensor Circuit Range/Performance P2541 Low Pressure Fuel System Sensor Circuit Low P2542 Low Pressure Fuel System Sensor Circuit High P2543 Low Pressure Fuel System Sensor Circuit Intermittent P2544 | Torque Management Request Input Signal "A" P2545 Torque Management Request Input Signal "A" Range/Performance P2546 Torque Management Request Input Signal "A" Low P2547 Torque Management Request Input Signal "A" High P2548 Torque Management Request Input Signal "B" P2549 Torque Management Request Input Signal "B" Range/Performance P2550 Torque Management Request Input Signal "B" Low P2551 Torque Management Request Input Signal "B" High P2552 Throttle/Fuel Inhibit Circuit

# **DTC (Trouble Codes)** P2553 Throttle/Fuel Inhibit Circuit Range/Performance P2554 Throttle/Fuel Inhibit Circuit Low P2555 Throttle/Fuel Inhibit Circuit High P2556 Engine Coolant Level Sensor/Switch Circuit P2557 | Engine Coolant Level Sensor/Switch Circuit Range/Performance P2558 Engine Coolant Level Sensor/Switch Circuit Low P2559 Engine Coolant Level Sensor/Switch Circuit High P2560 Engine Coolant Level Low P2561 A/C Control Module Requested MIL Illumination P2562 Turbocharger Boost Control Position Sensor Circuit P2563 Turbocharger Boost Control Position Sensor Circuit Range/Performance P2564 Turbocharger Boost Control Position Sensor Circuit Low P2565 Turbocharger Boost Control Position Sensor Circuit High P2566 Turbocharger Boost Control Position Sensor Circuit Intermittent P2567 Direct Ozone Reduction Catalyst Temperature Sensor Circuit P2568 Direct Ozone Reduction Catalyst Temperature Sensor Circuit Range/Performance P2569 Direct Ozone Reduction Catalyst Temperature Sensor Circuit Low P2570 Direct Ozone Reduction Catalyst Temperature Sensor Circuit High P2571 Direct Ozone Reduction Catalyst Temperature Sensor Circuit Intermittent/Erratic P2572 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit P2573 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Range/Performance P2574 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Low P2575 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit High P2576 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Intermittent/Erratic P2577 | Direct Ozone Reduction Catalyst Efficiency Below Threshold P2600 Coolant Pump Control Circuit/Open P2601 | Coolant Pump Control Circuit Range/Performance P2602 | Coolant Pump Control Circuit Low P2603 Coolant Pump Control Circuit High P2604 Intake Air Heater "A" Circuit Range/Performance P2605 Intake Air Heater "A" Circuit/Open P2606 Intake Air Heater "B" Circuit Range/Performance P2607 Intake Air Heater "B" Circuit Low P2608 Intake Air Heater "B" Circuit High P2609 Intake Air Heater System Performance P2610 ECM/PCM Internal Engine Off Timer Performance P2611 A/C Refrigerant Distribution Valve Control Circuit/Open P2612 A/C Refrigerant Distribution Valve Control Circuit Low P2613 A/C Refrigerant Distribution Valve Control Circuit High P2614 | Camshaft Position Signal Output Circuit/Open P2615 | Camshaft Position Signal Output Circuit Low P2616 Camshaft Position Signal Output Circuit High

# **DTC (Trouble Codes)** P2617 Crankshaft Position Signal Output Circuit/Open P2618 Crankshaft Position Signal Output Circuit Low P2619 Crankshaft Position Signal Output Circuit High P2620 Throttle Position Output Circuit/Open P2621 Throttle Position Output Circuit Low P2622 Throttle Position Output Circuit High P2623 Injector Control Pressure Regulator Circuit/Open P2624 Injector Control Pressure Regulator Circuit Low P2625 Injector Control Pressure Regulator Circuit High P2626 O2 Sensor Pumping Current Trim Circuit/Open P2627 O2 Sensor Pumping Current Trim Circuit Low P2628 O2 Sensor Pumping Current Trim Circuit High P2629 O2 Sensor Pumping Current Trim Circuit/Open P2630 O2 Sensor Pumping Current Trim Circuit Low P2631 O2 Sensor Pumping Current Trim Circuit High P2632 | Fuel Pump "B" Control Circuit / Open P2633 | Fuel Pump "B" Control Circuit Low P2634 | Fuel Pump "B" Control Circuit High P2635 | Fuel Pump "A" Low Flow / Performance P2636 Fuel Pump "B" Low Flow / Performance P2637 Torque Management Feedback Signal "A" P2638 Torque Management Feedback Signal "A" Range/Performance P2639 Torque Management Feedback Signal "A" Low P2640 Torque Management Feedback Signal "A" High P2641 Torque Management Feedback Signal "B" P2642 | Torque Management Feedback Signal "B" Range/Performance P2643 Torque Management Feedback Signal "B" Low P2644 Torque Management Feedback Signal "B" High P2645 "A" Rocker Arm Actuator Control Circuit/Open P2646 | "A" Rocker Arm Actuator System Performance or Stuck Off P2647 "A" Rocker Arm Actuator System Stuck On P2648 "A" Rocker Arm Actuator Control Circuit Low P2649 "A" Rocker Arm Actuator Control Circuit High P2650 | "B" Rocker Arm Actuator Control Circuit/Open P2651 "B" Rocker Arm Actuator System Performance or Stuck Off P2652 "B" Rocker Arm Actuator System Stuck On P2653 "B" Rocker Arm Actuator Control Circuit Low P2654 "B" Rocker Arm Actuator Control Circuit High P2655 A" Rocker Arm Actuator Control Circuit/Open P2656 "A" Rocker Arm Actuator System Performance or Stuck Off P2657 "A" Rocker Arm Actuator System Stuck On P2658 "A" Rocker Arm Actuator Control Circuit Low

# **DTC (Trouble Codes)** P2659 "A" Rocker Arm Actuator Control Circuit High P2660 "B" Rocker Arm Actuator Control Circuit/Open P2661 | "B" Rocker Arm Actuator System Performance or Stuck Off P2662 "B" Rocker Arm Actuator System Stuck On P2663 "B" Rocker Arm Actuator Control Circuit Low P2664 "B" Rocker Arm Actuator Control Circuit High P2665 | Fuel Shutoff Valve "B" Control Circuit/Open P2666 Fuel Shutoff Valve "B" Control Circuit Low P2667 Fuel Shutoff Valve "B" Control Circuit High P2668 Fuel Mode Indicator Lamp Control Circuit P2669 Actuator Supply Voltage "B" Circuit /Open P2670 | Actuator Supply Voltage "B" Circuit Low P2671 | Actuator Supply Voltage "B" Circuit High P2700 Transmission Friction Element "A" Apply Time Range/Performance P2701 Transmission Friction Element "B" Apply Time Range/Performance P2702 Transmission Friction Element "C" Apply Time Range/Performance P2703 Transmission Friction Element "D" Apply Time Range/Performance P2704 Transmission Friction Element "E" Apply Time Range/Performance P2705 Transmission Friction Element "F" Apply Time Range/Performance P2706 Shift Solenoid "F" P2707 Shift Solenoid "F" Performance or Stuck Off P2708 | Shift Solenoid "F" Stuck On P2709 Shift Solenoid "F" Electrical P2710 Shift Solenoid "F" Intermittent P2711 Unexpected Mechanical Gear Disengagement P2712 Hydraulic Power Unit Leakage P2713 Pressure Control Solenoid "D" P2714 Pressure Control Solenoid "D" Performance or Stuck Off P2715 Pressure Control Solenoid "D" Stuck On P2716 Pressure Control Solenoid "D" Electrical P2717 Pressure Control Solenoid "D" Intermittent P2718 Pressure Control Solenoid "D" Control Circuit / Open P2719 Pressure Control Solenoid "D" Control Circuit Range/Performance P2720 Pressure Control Solenoid "D" Control Circuit Low P2721 Pressure Control Solenoid "D" Control Circuit High P2722 Pressure Control Solenoid "E" P2723 Pressure Control Solenoid "E" Performance or Stuck Off P2724 Pressure Control Solenoid "E" Stuck On P2725 Pressure Control Solenoid "E" Electrical P2726 Pressure Control Solenoid "E" Intermittent P2727 Pressure Control Solenoid "E" Control Circuit / Open P2728 Pressure Control Solenoid "E" Control Circuit Range/Performance

# **DTC (Trouble Codes)** P2729 Pressure Control Solenoid "E" Control Circuit Low P2730 Pressure Control Solenoid "E" Control Circuit High P2731 Pressure Control Solenoid "F" P2732 Pressure Control Solenoid "F" Performance or Stuck Off P2733 Pressure Control Solenoid "F" Stuck On P2734 Pressure Control Solenoid "F" Electrical P2735 Pressure Control Solenoid "F" Intermittent P2736 Pressure Control Solenoid "F" Control Circuit/Open P2737 Pressure Control Solenoid "F" Control Circuit Range/Performance P2738 Pressure Control Solenoid "F" Control Circuit Low P2739 Pressure Control Solenoid "F" Control Circuit High P2740 Transmission Fluid Temperature Sensor "B" Circuit" P2741 Transmission Fluid Temperature Sensor "B" Circuit Range Performance P2742 Transmission Fluid Temperature Sensor "B" Circuit Low P2743 Transmission Fluid Temperature Sensor "B" Circuit High P2744 Transmission Fluid Temperature Sensor "B" Circuit Intermittent P2745 Intermediate Shaft Speed Sensor "B" Circuit P2746 Intermediate Shaft Speed Sensor "B" Circuit Range/Performance P2747 Intermediate Shaft Speed Sensor "B" Circuit No Signal P2748 Intermediate Shaft Speed Sensor "B" Circuit Intermittent P2749 Intermediate Shaft Speed Sensor "C" Circuit P2750 Intermediate Shaft Speed Sensor "C" Circuit Range/Performance P2751 Intermediate Shaft Speed Sensor "C" Circuit No Signal P2752 Intermediate Shaft Speed Sensor "C" Circuit Intermittent P2753 Transmission Fluid Cooler Control Circuit/Open P2754 Transmission Fluid Cooler Control Circuit Low P2755 Transmission Fluid Cooler Control Circuit High P2756 Torque Converter Clutch Pressure Control Solenoid P2757 Torque Converter Clutch Pressure Control Solenoid Control Circuit Performance or Stuck Off P2758 Torque Converter Clutch Pressure Control Solenoid Control Circuit Stuck On P2759 Torque Converter Clutch Pressure Control Solenoid Control Circuit Electrical P2760 Torque Converter Clutch Pressure Control Solenoid Control Circuit Intermittent P2761 Torque Converter Clutch Pressure Control Solenoid Control Circuit/Open P2762 Torque Converter Clutch Pressure Control Solenoid Control Circuit Range/Performance P2763 Torque Converter Clutch Pressure Control Solenoid Control Circuit High P2764 Torque Converter Clutch Pressure Control Solenoid Control Circuit Low P2765 Input/Turbine Speed Sensor "B" Circuit P2766 Input/Turbine Speed Sensor "B" Circuit Range/Performance P2767 Input/Turbine Speed Sensor "B" Circuit No Signal P2768 Input/Turbine Speed Sensor "B" Circuit Intermittent P2769 Torque Converter Clutch Circuit Low P2770 Torque Converter Clutch Circuit High

# **DTC (Trouble Codes)** P2771 Four Wheel Drive (4WD) Low Switch Circuit P2772 Four Wheel Drive (4WD) Low Switch Circuit Range/Performance P2773 | Four Wheel Drive (4WD) Low Switch Circuit Low P2774 | Four Wheel Drive (4WD) Low Switch Circuit High P2775 Upshift Switch Circuit Range/Performance P2776 Upshift Switch Circuit Low P2777 Upshift Switch Circuit High P2778 Upshift Switch Circuit Intermittent/Erratic P2779 Downshift Switch Circuit Range/Performance P2780 Downshift Switch Circuit Low P2781 Downshift Switch Circuit High P2782 Downshift Switch Circuit Intermittent/Erratic P2783 Torque Converter Temperature Too High P2784 Input/Turbine Speed Sensor "A"/"B" Correlation P2785 Clutch Actuator Temperature Too High P2786 | Gear Shift Actuator Temperature Too High P2787 | Clutch Temperature Too High P2788 Auto Shift Manual Adaptive Learning at Limit P2789 Clutch Adaptive Learning at Limit P2790 Gate Select Direction Circuit P2791 Gate Select Direction Circuit Low P2792 | Gate Select Direction Circuit High P2793 Gear Shift Direction Circuit P2794 Gear Shift Direction Circuit Low P2795 Gear Shift Direction Circuit High P2A00 O2 Sensor Circuit Range/Performance P2A01 O2 Sensor Circuit Range/Performance P2A02 O2 Sensor Circuit Range/Performance P2A03 O2 Sensor Circuit Range/Performance P2A04 O2 Sensor Circuit Range/Performance P2A05 O2 Sensor Circuit Range/Performance P3400 Cylinder Deactivation System P3401 Cylinder 1 Deactivation/Intake Valve Control Circuit/Open P3402 | Cylinder 1 Deactivation/Intake Valve Control Performance P3403 Cylinder 1 Deactivation/Intake Valve Control Circuit Low P3404 Cylinder 1 Deactivation/Intake Valve Control Circuit High P3405 Cylinder 1 Exhaust Valve Control Circuit/Open P3406 Cylinder 1 Exhaust Valve Control Performance P3407 Cylinder 1 Exhaust Valve Control Circuit Low P3408 Cylinder 1 Exhaust Valve Control Circuit High P3409 Cylinder 2 Deactivation/Intake Valve Control Circuit/Open P3410 Cylinder 2 Deactivation/Intake Valve Control Performance

# **DTC (Trouble Codes)** P3411 Cylinder 2 Deactivation/Intake Valve Control Circuit Low P3412 Cylinder 2 Deactivation/Intake Valve Control Circuit High P3413 Cylinder 2 Exhaust Valve Control Circuit/Open P3414 Cylinder 2 Exhaust Valve Control Performance P3415 Cylinder 2 Exhaust Valve Control Circuit Low P3416 Cylinder 2 Exhaust Valve Control Circuit High P3417 | Cylinder 3 Deactivation/Intake Valve Control Circuit/Open P3418 Cylinder 3 Deactivation/Intake Valve Control Performance P3419 Cylinder 3 Deactivation/Intake Valve Control Circuit Low P3420 Cylinder 3 Deactivation/Intake Valve Control Circuit High P3421 | Cylinder 3 Exhaust Valve Control Circuit/Open P3422 | Cylinder 3 Exhaust Valve Control Performance P3423 Cylinder 3 Exhaust Valve Control Circuit Low P3424 Cylinder 3 Exhaust Valve Control Circuit High P3425 Cylinder 4 Deactivation/Intake Valve Control Circuit/Open P3426 Cylinder 4 Deactivation/Intake Valve Control Performance P3427 Cylinder 4 Deactivation/Intake Valve Control Circuit Low P3428 Cylinder 4 Deactivation/Intake Valve Control Circuit High P3429 Cylinder 4 Exhaust Valve Control Circuit/Open P3430 Cylinder 4 Exhaust Valve Control Performance P3431 | Cylinder 4 Exhaust Valve Control Circuit Low P3432 Cylinder 4 Exhaust Valve Control Circuit High P3433 Cylinder 5 Deactivation/Intake Valve Control Circuit/Open P3434 Cylinder 5 Deactivation/Intake Valve Control Performance P3435 | Cylinder 5 Deactivation/Intake Valve Control Circuit Low P3436 Cylinder 5 Deactivation/Intake Valve Control Circuit High P3437 Cylinder 5 Exhaust Valve Control Circuit/Open P3438 Cylinder 5 Exhaust Valve Control Performance P3439 Cylinder 5 Exhaust Valve Control Circuit Low P3440 Cylinder 5 Exhaust Valve Control Circuit High P3441 Cylinder 6 Deactivation/Intake Valve Control Circuit/Open P3442 Cylinder 6 Deactivation/Intake Valve Control Performance P3443 Cylinder 6 Deactivation/Intake Valve Control Circuit Low P3444 Cylinder 6 Deactivation/Intake Valve Control Circuit High P3445 Cylinder 6 Exhaust Valve Control Circuit/Open P3446 Cylinder 6 Exhaust Valve Control Performance P3447 Cylinder 6 Exhaust Valve Control Circuit Low P3448 Cylinder 6 Exhaust Valve Control Circuit High P3449 Cylinder 7 Deactivation/Intake Valve Control Circuit/Open P3450 Cylinder 7 Deactivation/Intake Valve Control Performance P3451 Cylinder 7 Deactivation/Intake Valve Control Circuit Low P3452 Cylinder 7 Deactivation/Intake Valve Control Circuit High

# **DTC (Trouble Codes)** P3453 Cylinder 7 Exhaust Valve Control Circuit/Open P3454 Cylinder 7 Exhaust Valve Control Performance P3455 Cylinder 7 Exhaust Valve Control Circuit Low P3456 Cylinder 7 Exhaust Valve Control Circuit High P3457 Cylinder 8 Deactivation/Intake Valve Control Circuit/Open P3458 Cylinder 8 Deactivation/Intake Valve Control Performance P3459 | Cylinder 8 Deactivation/Intake Valve Control Circuit Low P3460 Cylinder 8 Deactivation/Intake Valve Control Circuit High P3461 Cylinder 8 Exhaust Valve Control Circuit/Open P3462 Cylinder 8 Exhaust Valve Control Performance P3463 Cylinder 8 Exhaust Valve Control Circuit Low P3464 | Cylinder 8 Exhaust Valve Control Circuit High P3465 Cylinder 9 Deactivation/Intake Valve Control Circuit/Open P3466 Cylinder 9 Deactivation/Intake Valve Control Performance P3467 Cylinder 9 Deactivation/Intake Valve Control Circuit Low P3468 Cylinder 9 Deactivation/Intake Valve Control Circuit High P3469 Cylinder 9 Exhaust Valve Control Circuit/Open P3470 Cylinder 9 Exhaust Valve Control Performance P3471 Cylinder 9 Exhaust Valve Control Circuit Low P3472 Cylinder 9 Exhaust Valve Control Circuit High P3473 Cylinder 10 Deactivation/Intake Valve Control Circuit/Open P3474 Cylinder 10 Deactivation/Intake Valve Control Performance P3475 Cylinder 10 Deactivation/Intake Valve Control Circuit Low P3476 Cylinder 10 Deactivation/Intake Valve Control Circuit High P3477 | Cylinder 10 Exhaust Valve Control Circuit/Open P3478 Cylinder 10 Exhaust Valve Control Performance P3479 Cylinder 10 Exhaust Valve Control Circuit Low P3480 Cylinder 10 Exhaust Valve Control Circuit High P3481 Cylinder 11 Deactivation/Intake Valve Control Circuit/Open P3482 Cylinder 11 Deactivation/Intake Valve Control Performance P3483 Cylinder 11 Deactivation/Intake Valve Control Circuit Low P3484 Cylinder 11 Deactivation/Intake Valve Control Circuit High P3485 Cylinder 11 Exhaust Valve Control Circuit/Open P3486 | Cylinder 11 Exhaust Valve Control Performance P3487 Cylinder 11 Exhaust Valve Control Circuit Low P3488 Cylinder 11 Exhaust Valve Control Circuit High P3489 Cylinder 12 Deactivation/Intake Valve Control Circuit/Open P3490 Cylinder 12 Deactivation/Intake Valve Control Performance P3491 Cylinder 12 Deactivation/Intake Valve Control Circuit Low P3492 Cylinder 12 Deactivation/Intake Valve Control Circuit High P3493 Cylinder 12 Exhaust Valve Control Circuit/Open P3494 Cylinder 12 Exhaust Valve Control Performance

DTC (Trouble Codes)		
P3495	Cylinder 12 Exhaust Valve Control Circuit Low	
P3496	Cylinder 12 Exhaust Valve Control Circuit High	
P3497	Cylinder Deactivation System	